



The Physics Department, Aristotle University of Thessaloniki, welcomes international students.

The incoming students who are not fluent in Greek have the opportunity to choose post-graduate courses or undergraduates, which are offered in English, among those listed in the following tables.

These courses are taught in the individual study scheme according to which the students are provided with teaching material in English (overheads and/or class notes, literature), a detailed study scheme and regular/weekly meeting hours with the faculty members. Finally they are examined in English. In addition to that they have the option to work on a project towards a B.Sc. or M.Sc. Thesis. In this case, it is necessary that they consult with the research activities of the individual faculty members (<http://www.physics.auth.gr/en/home>) and come to an agreement with them prior to their arrival.

Master Degree courses offered in English

Odd (even) semester numbers correspond to fall (spring) semesters.

Semester	Course Title	ECTS	Contact Person	Web page
1 st	Laboratory of Programming and Software Applications	6	T. Samaras	http://qa.auth.gr/en/class/1/600004130
1 st	Atmospheric and environmental physics	8	K. Tourpali	https://qa.auth.gr/en/class/1/600004175
1 st	Radiation in the atmosphere	8	A.Bais	https://qa.auth.gr/en/class/1/600004177
1 st	Electronic Circuits	7	T. Laopoulos, T. Noulis	http://elecom.physics.auth.gr/En/Courses/Electro n/semesterE1.htm http://qa.auth.gr/en/class/1/600004163
1 st	Physical properties of materials	8	O. Kalogirou	http://qa.auth.gr/en/class/1/600004252/
1 st	Materials structure, growth & synthesis	8	E. C. Paloura	https://qa.auth.gr/en/class/1/600004253
2 nd	Computational Simulation Methods in the Physics of Condensed Phases and Complex Systems II	4	P. Argyrakis	http://comphys.web.auth.gr/index.php/2012-04-27-13-47-30/2012-05-06-17-07-59/80-2012-05-09-15-43-27/93-a8 (**the abstract is shown at the end of this table)
2 nd	Thin films II: applications	2	M. Angelakeris, E. C. Paloura	https://qa.auth.gr/en/class/1/600004402
2 nd	Magnetic nanostructures	2	M. Angelakeris	http://qa.auth.gr/en/class/1/600004411
2 nd	Computational Electromagnetics	7.5	T. Samaras	http://qa.auth.gr/en/class/1/600004363
2 nd	Global change	4	K. Tourpali	https://qa.auth.gr/en/class/1/600004329
2 nd	Radiative transfer models	4	A.Bais	https://qa.auth.gr/en/class/1/600004330
2 nd	Atmospheric Aerosols	4	D. Balis	https://qa.auth.gr/en/class/1/600004333
2 nd	Atmospheric Pollution and Environmental Meteorology	8	D. Melas	https://qa.auth.gr/en/class/1/600004320
2 nd	Materials Optimization and Selection Methods	8	I.Kioseoglou	http://qa.auth.gr/en/class/1/600004398/M1

** *Computer simulation methods using the Monte-Carlo technique of advanced problems in Condensed Matter Physics. Use of random numbers. Diffusion in lattices and Random walks, Number of sites visited, Probability for return to the origin, Trapping phenomena, Percolation and phase transitions of 2nd order. Critical exponents. Networks. Scale-free systems. Probability distribution functions. Boxing techniques. Correlation functions. Molecular Dynamics methods.*



Bachelor Degree Courses offered in English

Odd/fall semesters run from October to mid-February (examination period included)

Even/spring semesters run from mid-February to the end of June (examination period included)

Semester	Course Title	ECTS	Contact Person	Web page
3 rd	Physics IV (waves and optics)	8	J. Arvanitidis, M Katsikini	http://www.physics.auth.gr/en/courses/141
3 rd	Atmospheric and environmental physics	5	A.Bais, D. Melas, D. Balis	http://www.physics.auth.gr/en/courses/138
4 th	Optics laboratory	4	J. Arvanitidis, M Katsikini	http://www.physics.auth.gr/en/courses/154
4 th	Electronics	5	S. Nikolaidis	http://www.physics.auth.gr/en/courses/153
5 th	Bioelectromagnetics	4	T. Samaras	http://www.physics.auth.gr/en/courses/160
5 th	History and Evolution of Concepts in Physics	4	H. Varvoglis	http://www.physics.auth.gr/en/courses/156
5 th	Physics of Metals	4	T. Kehagias, G. Dimitrakopoulos	http://www.physics.auth.gr/en/courses/162
5 th	Quantum Mechanics I	8	T. Gaitanos	http://www.physics.auth.gr/en/courses/122
6 th	Cosmic Radiation	4	A. Liolios	http://www.physics.auth.gr/en/courses/170
6 th	Physics of Materials	4	F. Komninou, J. Kioseoglou	http://www.physics.auth.gr/en/courses/178
7 th	Computational Simulation Methods in the Physics of Condensed Phases and Complex Systems I	4	P. Argyrakis	http://www.physics.auth.gr/en/courses/212
7 th	Solid State Physics	7	S. Ves, E. C. Paloura	http://www.physics.auth.gr/en/courses/43
7 th	Magnetic materials and Applications	4	M. Angelakeris, H. Sarafidis	http://www.physics.auth.gr/en/courses/216
7 th	Nonlinear Dynamical Systems	5	G. Vougiatzis	http://www.physics.auth.gr/en/courses/200
7 th	Digital Circuits	4	S. Nikolaidis	http://www.physics.auth.gr/en/courses/220
7 th	Atmospheric environment	5	D. Melas, K. Tourpali	http://www.physics.auth.gr/en/courses/199
7 th	Electronic Circuits	5	T. Laopoulos, T. Noulis	http://www.physics.auth.gr/en/courses/196
8 th	Physics of nanostructures and surfaces	4	E. C. Paloura	http://www.physics.auth.gr/en/courses/205
8 th	Solid State Physics II	5	M. Angelakeris, M. Gioti	http://www.physics.auth.gr/en/courses/204
8 th	Radiation Physics and Applications of Radioisotopes	4	A. Ioannidou	http://www.physics.auth.gr/en/courses/228
8 th	Cosmology	4	C. Tsagas	http://www.physics.auth.gr/en/courses/222
8 th	General Theory of Relativity	4	C. Tsagas, N. Stergioulas	http://www.physics.auth.gr/en/courses/236
8 th	Photonics and Applications	4	K. Virsokinos	http://www.physics.auth.gr/en/courses/186
8 th	Atmospheric Technology	4	A.Bais, D. Balis, K. Garane, K. Tourpali	http://www.physics.auth.gr/en/courses/231
8 th	Global Environmental Changes	4	D. Balis, K. Tourpali	http://www.physics.auth.gr/en/courses/232