ARISTOTLE UNIVERSITY OF THESSALONIKI

School of Physics

Program of Postgraduate Studies

“Computational Physics”

A8. Study Guide

18 February 2026

Aristotle University of Thessaloniki
Faculty of Sciences
School of Physics

Postgraduate Programme Study (P.P.S.)

Computational Physics

Study Guide

Academic Year 2026–2027

New Curriculum

Applies to students admitted from Academic Year 2026–27 onwards

Website: https://pms.physics.auth.gr/comphys/

Thessaloniki, December 2025

Table of Contents

1. History and Profile of the Department of Physics and the P.S.P.

The Department of Physics of AUTH (https://www.physics.auth.gr) first opened in 1928 and is today one of the oldest and largest departments in Greece, both in terms of staff and students and in terms of scientific and research activities and distinctions. It remains a pioneer in science and research and is distinguished for the high level of education it provides. It has a strong research tradition with international collaborations, while its teaching staff includes acclaimed scientists. High-level research carried out in the Department of Physics places it among the highest-ranked units at AUTH in terms of research project funding. The combined emphasis of the study programme on theoretical training and experimental specialization makes its graduates competitive both in academic careers and in the wider professional field.

The Department of Physics is active in 5 scientific fields (with corresponding Sections and laboratories): Astronomy and Dynamics, Theoretical and Nuclear Physics, Condensed Matter Physics, Electronics, and Electricity-Magnetism and Telecommunications. The Department has 13 established laboratories with modern equipment. It also offers six independent Postgraduate Programmes and one inter-departmental Postgraduate Studies Programme, providing the opportunity for specialization both to its own graduates and to graduates of other Departments and universities. The Department's presentation is available at https://www.physics.auth.gr/tmima/parousiasi-tmimatos/.

The P.S.P. "Computational Physics" of the Department of Physics of AUTH (https://pms.physics.auth.gr/comphys/) is the only such programme in Greece to date and began operating in the academic year 2003–2004 under the direction of Professor Giorgos Theodorou. During the first 21 years of its operation, approximately 350 students have enrolled, of whom approximately 230 have graduated. A large proportion of its graduates have used the Master's Degree for professional placement in related fields (research institutes, public and private sector, universities, secondary education), while a significant number have gone on to complete a doctoral dissertation.

Its subject matter is the organization of an educational study programme in the broader scientific area of Computational Physics. It aims to train scientists capable of employing advanced computational techniques to solve complex physics problems. By combining theoretical knowledge with practical programming and modelling skills, the programme prepares students for innovative research and applications in academia, industry, and innovative product companies, always promoting knowledge of modern science. The Computational Physics P.S.P. also provides students with the necessary skills to continue their studies in the third cycle and obtain a doctoral degree in any scientific area of Physics.

The scientific reasons that make the Computational Physics P.S.P. important (evolution of science, interdisciplinary research, big data analysis, artificial intelligence, etc.) are directly linked to modern societal needs, as the Computational Physics P.S.P. develops and exploits pioneering methods for technological innovation, economic development, energy, and health.

2. Subject Matter, Objectives, and Expected Learning Outcomes

Subject Matter: The subject matter of the Computational Physics P.S.P. is the organization of an educational study programme in the broader scientific area of Computational Physics. It aims to train scientists capable of employing advanced computational techniques to solve complex physics problems. By combining theoretical knowledge with practical programming and modelling skills, the programme prepares students for innovative research and applications in academia, industry, and innovative product companies, always promoting knowledge of modern science.

Objectives:

- The continuous briefing and training of students on current issues of computational interest and on new practices applied to address computational problems.
- Training and education in modern computational tools and techniques essential for contemporary research and modern technological applications.
- The development of entrepreneurship and adaptability of students in the labor market in matters of applied research and the production of know-how.
- Familiarizing students with international activities through their involvement in current research activities of faculty members and researchers supporting the postgraduate programme.

Expected learning outcomes and qualifications of the P.S.P. are in accordance with the European and National Qualifications Framework for Higher Education at level 7. Upon completing their studies, graduates of the P.S.P. acquire knowledge, abilities, and skills as follows:

- Specialized knowledge in advanced methods for the study of complex and intricate systems.
- Programming skills and algorithm development to exploit modern computational capabilities (object-oriented programming, parallel programming, graphics, etc.).
- Research abilities through analysis and study of modern research data, exploration of the literature, and writing scientific papers.
- Analytical and synthetic thinking for addressing complex physics problems and developing innovative methods to solve them.
- Technical skills for using specialized software, managing computational resources, and exploiting artificial intelligence.

3. University Academic Calendar

1. The academic year begins on 1 September each year and ends on 31 August of the following year.
2. The educational work of each academic year is organized into two semesters. Each semester includes at least 13 full teaching weeks.
3. The winter semester begins in October and examinations are held in February. The spring semester begins in March and examinations are held from mid-June to mid-July. The number of examination weeks is set in the Institution's Statutes. Repetitive examinations are held in September.
4. Apart from the two examination periods, classes are suspended from Christmas Eve to the day after Epiphany, from Cheesefare Thursday to the day after Clean Monday, and from Great Monday to Thomas Sunday.
5. No classes or examinations are held on weekends or on the following holidays and anniversaries:

- Feast of Saint Demetrios (26 October)
- National holiday of 28 October
- Polytechnic Uprising anniversary (17 November)
- Three Holy Hierarchs (30 January)
- Annunciation (25 March)
- 1 May
- Pentecost (Holy Spirit)

4. Governing Bodies of the P.S.P.

The competent bodies for the administration, organization, and operation of the P.S.P. are:

1. **The Senate** of the Institution, which is responsible for academic, administrative, and organizational matters of the P.S.P., and exercises whatever competences relating to the P.S.P. are not assigned by law to other bodies.
2. **The Postgraduate Studies Committee**, constituted by Senate decision, consisting of the competent Vice-Rector, who acts as Chair, plus one (1) member of Teaching Research Staff (D.E.P.) from each School of AUTH, and one (1) member from the categories of Special Educational Staff, Laboratory Teaching Staff, and Special Technical Laboratory Staff of AUTH. Committee members have experience in organizing and participating in second-cycle programmes. The Committee's term is two (2) academic years.
3. **The Department Assembly**, which has the following competences:
    a) constitutes Committees for evaluating applications from prospective postgraduate students and approves their enrolment in the P.S.P.;
    b) assigns teaching duties to the instructors of the P.S.P.;
    c) recommends to the Senate amendments to the P.S.P. founding decision and the extension of the P.S.P. duration;
    d) constitutes examination committees for the examination of students' master's theses and appoints a supervisor for each thesis;
    e) ascertains the successful completion of studies in order for the P.S.P. title to be conferred;
    f) approves the P.S.P. report, following a recommendation from the Coordinating Committee.
    g) By decision of the Department Assembly, the competences in items (a) and (d) may be delegated to the Coordinating Committee (C.C.) of the P.S.P.
4. **The Coordinating Committee (C.C.) of the P.S.P.**, consisting of the Director of the P.S.P. and four (4) D.E.P. members of the Department with scientific expertise related to the P.S.P. subject matter who take on teaching duties in the P.S.P. The C.C. members are designated by Department Assembly decision and have the following competences:
    a. drafts the initial annual budget of the P.S.P. and its amendments (if the P.S.P. has resources pursuant to Article 84 of Law 4957/2022) and recommends its approval to the Special Account for Research Funds (E.L.K.E.);
    b. drafts the P.S.P. report and recommends its approval to the Department Assembly;
    c. approves the incurring of P.S.P. expenditures;
    d. approves the granting of scholarships, reciprocal or otherwise, as laid down in the P.S.P. founding decision and the Postgraduate and Doctoral Programmes Regulations;
    e. recommends to the Department Assembly the allocation of teaching duties and the assignment of teaching work to the categories of instructors under Article 83 of Law 4957/2022;
    f. recommends to the Department Assembly the invitation of Visiting Professors to cover teaching needs of the P.S.P.;

g. drafts a plan for amending the curriculum and submits it to the Department Assembly;
h. recommends to the Department Assembly the redistribution of courses among academic semesters and matters relating to the qualitative improvement of the curriculum.

5. **The Director of the P.S.P.**, who is a Teaching-Research Staff member of the Department, with priority given to the rank of Professor or Associate Professor, and is appointed by decision of the Department Assembly for a two-year term, renewable without restriction, and is not entitled to additional remuneration for administrative duties. The Director exercises the competences provided in Article 82 para. 4 of Law 4957/2022 and any others defined in the P.S.P. founding decision:
    a. chairs the C.C. and draws up the agenda and convenes its sessions;
    b. puts forward to the Department Assembly matters relating to the organization and operation of the P.S.P.;
    c. recommends to the C.C. and other P.S.P. and University bodies on matters concerning the effective operation of the P.S.P.;
    d. is the Scientific Director of the P.S.P. pursuant to Article 234 of Law 4957/2022 and exercises the corresponding competences;
    e. monitors the implementation of decisions of the P.S.P. bodies and the Internal Postgraduate and Doctoral Programmes Regulations, as well as the execution of the P.S.P. budget.

The Director of the P.S.P. and the members of the C.C. are not entitled to remuneration or any compensation for performing the duties assigned to them.

The Secretarial Support of the P.S.P. is provided by the Department of Physics. The P.S.P. Secretariat is responsible for maintaining student files and grade records. It also informs postgraduate students on matters relating to the organization and operation of the P.S.P. and is responsible for preparing matters submitted to the Department Assembly.

5. Admission to the P.S.P.

In accordance with the Government Gazette establishing the P.S.P., No…./2024 (pending), the following are eligible for admission to the P.S.P.: holders of first-cycle degrees from Departments of Greek universities and from equivalent institutions recognised by the Inter-institutional Recognition Body for Academic Titles and Information (D.O.A.T.A.P.), pursuant to Article 304 of Law 4957/2022, and from foreign institutions, and specifically:

1. Graduates of Departments of (a) Schools of Natural Sciences and (b) Polytechnic Schools.

2. Holders of first-cycle degrees from Greek institutions and equivalent foreign institutions, with a study programme related or partially related to that of the P.S.P., as specified in the annual call for admission to the P.S.P. published on the websites of the Department of Physics and the P.S.P.

The annual intake is set at a maximum of eighteen (18) postgraduate students. The P.S.P. cannot operate with fewer than six (6) postgraduate students.

Following a decision of the Department Assembly each June, the P.S.P. announces positions through an open procedure. The announcement specifies the conditions for admission, the number of places, the categories of candidates, the method of admission, the selection criteria, etc., the deadlines for submitting applications, and the required supporting documents. The call for admission is published on the Department's website. Applications, together with the required documents, are submitted to the Department Secretariat, either in hard copy or electronically.

The necessary conditions for admission to the P.S.P. are described in detail in the call and the P.S.P. regulations. Beyond these, the selection/scoring criteria include: (1) the grade of the first-cycle degree from Greece or abroad; (2) the time taken to obtain the degree relative to the minimum required duration of the undergraduate programme; (3) grades in compulsory undergraduate Physics and Mathematics courses; (4) performance in the Undergraduate Thesis and its relevance to the P.S.P. subject matter; (5) performance in the compulsory entry examination in "Programming"; and (6) other qualifications assessed by the Three-Member Selection and Examination Committee from documentary evidence or an interview, such as additional degrees, publications, conference/school participation, training programmes related to the subject matter, etc.

The Three-Member Selection and Examination Committee ranks candidates in descending order of points and draws up the final list of successful candidates. Initially the list includes all candidates; after the relevant review, those who do not meet the necessary criteria are rejected. The remaining candidates are then ranked by their total points, and the final list of successful candidates is drawn up comprising those ranked highest in accordance with the number of places specified by the regulations. If two or more candidates are tied at the last ranked position, they are ranked by the points of the first criterion (degree grade). If tied again, ranking is based on the second criterion, and so on. Candidates are also designated as **reserve candidates**, the number of whom amounts to **30%** of the projected intake.

6. The P.S.P. Curriculum

The P.S.P. curriculum is structured over **three (3) semesters** and the total ECTS required for the award of the Master's Degree is 90.

- In Semester A, four (4) compulsory courses are taught, totalling 30 ECTS.
- In Semester B, four (4) core elective courses are offered, of which the student selects two (2) as compulsory electives. The student also selects two (2) elective courses from the courses taught. The four courses in total correspond to 30 ECTS.
- In Semester C, two (2) elective courses are selected (15 ECTS in total) and the master's thesis is prepared, credited with 15 ECTS.

Up to two (2) electives may come from other P.S.P.s (free electives).

The official **language** of the programme is Greek. Notes and bibliography may also be provided in English, while the language of the master's thesis may be Greek or English.

The detailed curriculum, as set out in the following section, includes the course content, compulsory courses, elective courses, semesters, timetable, teaching hours, and credit units for each course and for the Master's Thesis (M.Th.) required for the award of the Master's Degree. Details on the preparation of the M.Th. are also provided in Section 7.

The detailed curriculum is also posted on the P.S.P. website (https://pms.physics.auth.gr/comphys/programma-spoudon/).

6.1 Structure of the Curriculum

SEMESTER A	Four (4) Compulsory Courses	ECTS
1	Computational Mathematics	7.5
2	Programming I	7.5
3	Scientific Programming Tools	7.5
4	Data Analysis	7.5
	Total ECTS – Semester A	**30**

SEMESTER B	Four (4) courses: Two (2) Compulsory Electives (C.E.) and two (2) Elective courses (E)	ECTS
5, 6	TWO (2) OF THE FOLLOWING COMPULSORY ELECTIVES (Students may, if they wish, choose the remaining C.E. as an elective E) a) Computational Quantum Physics (C.E.)	7.5
	b) Computational Statistical Physics (C.E.)	7.5
	c) Computational Astrodynamics (C.E.)	7.5
	d) Artificial Intelligence and Machine Learning in Physics (C.E.)	7.5
7	Elective (E)	7.5
8	Elective (E)	7.5
	Total ECTS – Semester B	**30**

SEMESTER C	Two (2) Elective Courses	ECTS
9	Elective (E)	7.5
10	Elective (E)	7.5
11	Master's Thesis	15
	Total ECTS – Semester C	**30**

The available elective courses with indicative semester of teaching are given in the table below:

	Elective Course	Semester	ECTS
1	Computational Solid-State Physics	B	7.5
2	Computational Quantum Mechanics and Applications	C	7.5
3	Computational Astrophysics	B	7.5
4	Computational Electromagnetism	B	7.5
5	Computational Nuclear Physics	B	7.5
6	Computational Elementary Particle Physics and Detector Simulation	C	7.5
7	Programming II	B	7.5
8	Modelling and Simulation of Dynamical Systems	B	7.5
9	Quantum Information and Quantum Computers	B	7.5
10	Monte Carlo Methods and Applications	B	7.5
11	Astronomical Data Analysis	C	7.5
12	Computational Models of Environmental Physics	C	7.5
13	Computational Biophysics	C	7.5
14	Computational Fluid Dynamics	B	7.5
15	Computational Methods in Econophysics	B	7.5
16	Theory of Complex Systems and Networks	B	7.5
17	Mathematical Methods in Physics	C	7.5
18	Computational Methods in Applied Physics	B	7.5
19	Computer Graphics	B	7.5
20	Free Elective*	B or C	–

* Free Elective: Students may, with the approval of the P.S.P. Coordinating Committee, choose as electives courses related to the P.S.P. offered by other P.S.P.s at AUTH, contributing a maximum of fifteen (15) ECTS to the P.S.P. curriculum.

6.2 Detailed Curriculum

6.2.1 Compulsory Courses

No.	Code	Course	Hours	ECTS
1	**ΥΦΥ101**	Computational Mathematics Stergioulas N., Kosmidis K.	**3**	**7.5**
2	**ΥΦΥ105**	Programming I Kioseogiou I., Tsiganis K.	**3**	**7.5**
3	**ΥΦΥ106**	Scientific Programming Tools Vougiatzis G., Kioseogiou I., Gkolias I.	**3**	**7.5**
4	**ΥΦΥ107**	Data Analysis Kougioumtzis D., Stergioulas N.	**3**	**7.5**

6.2.2 Compulsory Electives (2 out of 4)

No.	Code	Course	Hours	ECTS
1	**ΥΦΥ205**	Computational Quantum Physics Moustakidis Ch., Petkou A., Gaitanos Th.	**3**	**7.5**
2	**ΥΦΥ206**	Computational Statistical Physics Kioseogiou I., Argyrakis P.	**3**	**7.5**
3	**ΥΦΥ204**	Computational Astrodynamics Tsiganis K., Vougiatzis G., Gkolias I.	**3**	**7.5**
4	**ΥΦΥ207**	Artificial Intelligence and Machine Learning in Physics Volos Ch., Antoniadis I.	**4**	**9**

6.2.3 Elective Courses

No.	Code	Course	Hours	ECTS
1	**ΥΦΕ201**	Computational Solid-State Physics Kioseogiou I., Argyrakis P.	**3**	**7.5**
2	**ΥΦΕ214**	Computational Quantum Mechanics and Applications Gaitanos Th., Siampos K.	**3**	**7.5**
3	**ΥΦΕ215**	Computational Astrophysics Pappas G., Papadopoulos P.	**3**	**7.5**
4	**ΥΦΕ216**	Computational Electromagnetism Samaras Th.	**3**	**7.5**
5	**ΥΦΕ211**	Computational Nuclear Physics Lalazisis G., Moustakidis Ch.	**3**	**7.5**
6	**ΥΦΕ202**	Computational Elementary Particle Physics and Detector Simulation Sampsonidis D., Kordas K., Argyropoulos S.	**3**	**7.5**
7	**ΥΦΕ217**	Programming II Stergioulas N., Tsiganis K.	**3**	**7.5**
8	**ΥΦΕ218**	Modelling and Simulation of Dynamical Systems Vougiatzis G., Meletlidou E., Volos Ch.	**3**	**7.5**
9	**ΥΦΕ219**	Quantum Information and Quantum Computers Moustakidis Ch., Diakonidis Th.	**3**	**7.5**
10	**ΥΦΕ220**	Monte Carlo Methods and Applications Maragkakis M., Kosmidis K.	**3**	**7.5**
11	**ΥΦΕ221**	Astronomical Data Analysis Stergioulas N., Pappas G.	**3**	**7.5**
12	**ΥΦΕ225**	Computer Graphics Vougiatzis G., Gkolias I.	**3**	**7.5**
13	**ΥΦΕ302**	Computational Models of Environmental Physics Karatzas K., Melas D.	**3**	**7.5**
14	**YFE301**	Computational Biophysics Sgardelis S., Kosmidis K.	**3**	**7.5**
15	**ΥΦΕ222**	Computational Fluid Dynamics Stergioulas N., Pappas G.	**3**	**7.5**

16	**ΥΦΕ223**	Computational Methods in Econophysics Kougioumtzis D., Argyrakis P.	**3**	**7.5**
17	**ΥΦΕ224**	Theory of Complex Systems and Networks Argyrakis P., Antoniadis I.	**3**	**7.5**
18	**ΥΦΕ303**	Mathematical Methods in Physics Moustakidis Ch., Siampos K.	**3**	**7.5**
19	**ΥΦΕ210**	Computational Methods in Applied Physics Maragkakis M., Kosmidis K.	**3**	**7.5**
20	**–**	Free Elective	**–**	**–**
21	**ΥΦΜΔΕ**	Master's Thesis P.S.P. Instructors	**–**	**15**

7. Master's Thesis

The preparation of a **Master's Thesis (M.Th.) is compulsory** in the P.S.P. curriculum and follows the procedures described in detail in paragraph C of Article 8 of the Regulations of the "Computational Physics" P.S.P. In particular, the regulations specify:

- the procedure for applying to commence, defining the topic and supervisor of the M.Th.;
- the procedure for constituting the Three-Member Examination Committee;
- guidelines on how to write the M.Th., e.g., language of writing, recommended formatting, and the minimum permissible page length;
- guidelines for the presentation and grading of the M.Th.

The P.S.P. Coordinating Committee, upon **application by the candidate**, in which (a) the proposed title of the master's thesis, (b) the proposed supervisor, and (c) an attached summary of the proposed work are stated, appoints the supervisor.

Furthermore, upon application by the candidate, a Three-Member Examination Committee is constituted for the approval of the thesis, one member of which is the supervisor.

The duration of the preparation of the Master's Thesis may not be less than the duration of an academic semester, and it may be written in Greek or English.

The defense of the Master's Thesis is conducted publicly, before the Three-Member Examination Committee.

The regulations for preparing a Master's Thesis, the timeline of procedures, and the necessary application forms are available in the web page of P.S.P.

8. Internal Operating Regulations

The Internal Operating Regulations of the **Computational Physics** P.S.P. (Government Gazette No. ….. – pending) contain detailed information on the organization and operation of the Postgraduate Programme, and specifically on student admission (numbers, criteria, process), teaching staff, structure and content of the Curriculum, as well as information on students' rights and obligations.

The full Internal Operating Regulations of the P.S.P., as well as other relevant regulations, are available at the web page of the P.S.P.

Key points of the Internal Operating Regulations of the P.S.P.:

1. **The method of assessment** for each course is determined by the instructor at the beginning of the academic semester. A resit examination period is held in September for all courses of the year.
2. **The grading scale** for assessing postgraduate students' performance runs from zero (0) to ten (10), as follows: Excellent (8.5 to 10), Very Good (6.5 to 8.5, not inclusive), Good (6 to 6.5, not inclusive). **The pass grade is six (6) and above.**
3. **Part-time attendance** is provided for postgraduate students, the duration of which may not exceed twice the normal duration, i.e., six (6) semesters.
4. Postgraduate students who have not exceeded the maximum duration of studies may, upon submission of a relevant request, be granted a **suspension of studies**, which may not exceed two (2) consecutive semesters. During the suspension, the postgraduate student loses student status.
5. Upon a substantiated request before the completion of the maximum duration of studies, a postgraduate student may request a **study extension** of one year, concerning the completion of studies or the preparation of the master's thesis. The Coordinating Committee submits the request to the Department Assembly stating the reasons for the requested extension, which approves or rejects the requested study extension. If the postgraduate student has not completed their studies after the end of the study extension, they are deregistered from the P.S.P. by decision of the Department Assembly.
6. The Department Assembly may **deregister** a postgraduate student for the following reasons:
    a. upon request by the postgraduate student;
    b. if the maximum prescribed duration of studies has elapsed without completion of studies;
    c. if the postgraduate student has not completed 30% of the required credit units (ECTS) for the degree within the normal duration of studies;
    d. for inappropriate academic conduct.
7. **Postgraduate students are required to:**
    a. Attend all courses of the applicable curriculum regularly and without fail. Attendance of courses and practical exercises is compulsory. Exceptions are permitted only for serious, substantiated reasons. For attendance of each course to be deemed successfully completed, students must participate in at least 70% of the teaching hours of each course.
    b. Submit assignments for each course on time.

c. Participate in all educational and research activities of the P.S.P.
d. Sit examinations.
e. Submit course declarations on time each semester.
f. If they have received a scholarship, provide reciprocal work where applicable (tutorials, contribution to the library and research, and wherever there is a need in University services).
g. Submit to the Secretariat, before the assessment of their thesis, a statutory declaration that it contains no elements of plagiarism.
h. Submit the P.S.P. assessment questionnaires and any other questionnaire relating to P.S.P. operation when requested.
i. Have settled all their obligations to the Institution before the graduation ceremony. Failing this, they will not have the right to take the graduation oath and/or receive the master's diploma.
j. Respect and comply with the decisions of the P.S.P. bodies and academic ethics. Failure to comply, without documented justification, may lead to failure in a course or exclusion from the programme.

8. At the commencement of P.S.P. attendance, a permanent Teaching-Research member of the P.S.P. is designated for each postgraduate student as an **Academic Advisor**. The Advisor's role is to monitor the progress of students' studies, be informed by instructors of any persistent absences by students under their responsibility, and notify students (via the Secretariat) that such absence may result in failure in the course. The Academic Advisor also assists with the selection of the master's thesis topic, taking into account the research interests of the postgraduate student. Students are required to contact their Academic Advisor regarding any problem that may affect the smooth progress of their studies. The Academic Advisor provides the postgraduate student with the necessary guidance to meet the demands of the P.S.P. The Academic Advisor ensures they meet with the postgraduate students they supervise at regular intervals, no less than two (2) times per semester.
9. **No tuition fees** are provided for in the P.S.P.

9. Useful Information

Secretariat

The Secretariat of the Department of Physics is housed on the first floor of the Secretariat Building of the School of Sciences (S.Th.E.), located in front of the new S.Th.E. building (Department of Biology building). Its entrance faces east. The Secretariat receives undergraduate and postgraduate students daily (Monday to Friday) from 10:30 to 12:00.

Head of Department Secretariat: Ms Vigli-Papadaki Lefkothea (Tel.: 2310998120, e-mail: lvigli@physics.auth.gr).

e-mail: info@physics.auth.gr, Tel.: 2310998140, 2310-998150, Fax: 2310998122

Postgraduate Students and Doctoral Candidates Officer

Kaimakamis Georgios, tel. 2310998550

Enrolment

Official enrolment of first-year P.S.P. students takes place approximately in December, definitely after the graduation ceremony for undergraduate students of the Department of Physics. Enrolment takes place following an announcement by the Secretariat of the Department of Physics.

Institutional Account

The Institutional Account (university ID) is required for the use of electronic services provided to the AUTH university community. It consists of a username and password, which are common to all electronic services requiring authentication via the institutional account. Upon enrolment, postgraduate students receive their institutional account details via the Digital Governance Unit of AUTH (it.auth.gr).

Academic ID Card

Students may submit the electronic application for an academic ID card throughout the academic year. The academic ID card is valid for as long as student status lasts, and covers multiple uses in addition to the Student Travel Card (Pass). New cards state the exact validity period of the Student Travel Card entitlement. If a student is not entitled to a Student Travel Card, the card serves as a simple identity card. Cards are delivered to the collection point chosen by each student when submitting the application. The academic ID card will remain at the delivery point for two months from the date of printing and the relevant notification to the student. Applications: https://submit-academicid.minedu.gov.gr/

Course Declarations

Course declarations are submitted electronically, in accordance with an announcement by the Secretariat of the Department of Physics, using the institutional account, via https://sis.auth.gr/.

Teaching Spaces (https://maps.auth.gr/)

- Classroom: Room 24, 4th floor, mainFaculty of Sciences building
- Computational Physics Lab, ground floor of the main Faculty of Sciences (east wing)

Department Library

The Department of Physics uses the new unified library of the School of Sciences. The Library is located on the ground floor of the new S.Th.E. building (Biology Department building). All books and journals of the Physics, Informatics, Geology, and Biology departments are housed there. From the Department of Physics, 20,000 books – mostly in foreign languages – and 200 journal titles (70 current subscriptions) have been catalogued in the new library. For better organisation, the Library uses new technologies: a computerised book catalogue (online), accessible to all users, as well as access to a number of bibliographic databases from the Central Library via the University network.

The S.Th.E. Library is a member of HEAL-Link (Hellenic Academic Libraries Link). Through HEAL-Link the library has access to 12 bibliographic databases of the FirstSearch information service of OCLC. It also has access to 2,500 journals from publishers including Elsevier, Kluwer, Academic Press, Springer, and MCB, etc.

The Library offers a lending service. User cards are issued by the Library for borrowing books. During the academic year the Library is open 09:00–15:00.

Library website: https://www.lib.auth.gr/el/b100. Staff: Vassileiadis Leonidas, Venetis Zoe, Emmanouel Kyriaki.

Computer Labs

The Department of Physics has 3 labs available for classes (capacity 10, 15, and 20 persons), as well as two open-access labs available to students of the Department of Physics (40 workstations in total) from Monday to Friday, 9:00 am–7:00 pm. The labs are located on the 4th floor of the glass building of the School and operate with the voluntary work of Department students. The Computational Physics P.S.P. has a lab with 20 computers on the ground floor of the Faculty of Sciences and Mathematics building.

Lab administrator: K. Liakakis – 2310-998370 – E.T.E.P., email: pclab@physics.auth.gr

Other Services

- **Electronic information:** Via the myAuth application (Android, iOS), students can access a range of student services on their mobile phones, such as the University Gym schedule, the Student Club menu, Computer Lab availability, the campus map, and recent institutional announcements.
- **E-Learning:** Via the platform https://elearning.auth.gr/, all P.S.P. courses are supported electronically. Students can enrol and access course-related material, submit assignments electronically, receive corrections and comments, participate in course discussion forums, and receive messages from instructors. Synchronous distance learning via video call (https://vconf.auth.gr/b) through the e-learning environment is also available, as are other teleconferencing services (https://it.auth.gr/services/academicsupport/) provided by AUTH.
- **Catering and health care** from the University Student Club of AUTH (https://www.auth.gr/university_unit/pfl/): available to eligible students as defined by specific criteria.

- **Accommodation:** The Aristotle University of Thessaloniki offers the possibility of free accommodation in Student Residences to eligible second-cycle students (https://www.auth.gr/university_unit/pfe/).
- **Health and Social Policy Services of AUTH:** These include the Primary Health Care Centre (https://www.auth.gr/university_unit/kpfy/), the Counselling and Psychological Support Centre (https://www.auth.gr/university_unit/kesypsy/), and the Social Policy & Health Committee (https://www.auth.gr/healthservices/).
- **Career and Study Liaison Office** (DASTA, https://www.dasta.auth.gr/): Its aim is to help students and graduates of AUTH to approach their future careers smoothly and to seek employment commensurate with the knowledge gained from their studies, by providing information on the options available to them for continuing their studies and transitioning to the labour market.
- As part of student welfare services, the Gender Equality Committee (https://www.auth.gr/committee/com-gaei/), the Office for the Support of Students from Vulnerable Social Groups (https://studentaid.auth.gr/), and the Student Ombudsman (https://www.auth.gr/synigoros-tou-foititi/) are also in operation; the latter ensures compliance with legality and academic ethics and order within the framework of academic freedom and addresses instances of maladministration with the aim of safeguarding the smooth functioning of the Institution.
- The services available to postgraduate students also include the University Gymnasium (https://gym.auth.gr/), the University Campsite at Kalandra (https://www.auth.gr/university_unit/camping/), and the Children's Centre (https://paidiko.auth.gr/), which provides services to student-parents.
- **Other digital services** (https://it.auth.gr/): Digital services available to P.S.P. students also include: 1) Wireless network connection – eduroam; 2) Virtual Private Network (VPN) access; 3) Remote access; 4) Personal storage (cloud); 5) Website creation; 6) Shared software; 7) Electronic enrolment in laboratory courses via the Department's website and institutional account.

Access

The P.S.P. teaching rooms, the secretariat, the offices of the majority of instructors, the library, computer labs, etc. are housed in the School of Sciences, whose buildings are located in the north-west of the central campus of AUTH in the city center. Access is possible by public transport (OASTH and Metro) and by private vehicle, for which AUTH provides dedicated parking spaces. For the campus map, see https://www.auth.gr/access/.

10. Instructor Contact Details

Name and Office	Tel.	E-mail
Antoniadis Ioannis Dr. E.DI.P., 4th fl., E.F.&F.P.	8006	iantoniades@physics.auth.gr
Argyrakis Panagiotis Emeritus Professor, Ground fl., F.S.K.	8043	panos@auth.gr
Argyropoulos Spyridon Assoc. Professor, 1st fl., P.F.S.S.	8903	Spyros.argyropoulow@cern.ch
Vougiatzis Georgios Professor, 4th fl., A.A.M.	8060	voyatzis@auth.gr
Volos Christos Professor, 4th fl., E.F.&F.P.	8284	volos@physics.auth.gr
Gaitanos Theodoros Professor, 4th fl., P.F.&F.S.S.	8204	tgaitano@auth.gr
Gkolias Ioannis Assist. Professor, 4th fl., A.A.M.	8062	igkoli@physics.auth.gr
Goudos Sotirios Professor, 4th fl., E.F.&F.P.	8392	sgoudo@physics.auth.gr
Diakonidis Theodoros Dr. E.DI.P., 4th fl., E.F.&F.P.	8218	thdiakonidis@auth.gr
Samaras Theodoros Professor, 4th fl., E.F.&F.P.	8232	theosama@auth.gr
Karatzas Konstantinos Professor, Dept. of Mechanical Engineering	4176	kkara@auth.gr
Kioseogiou Iosif Professor, Ground fl., F.S.K.	8312, 8011	sifisl@auth.gr
Kordas Konstantinos Professor, P.F.S.S.	4121	kostaskordas@auth.gr
Kosmidis Kosmas Dr. E.DI.P., 4th fl., P.F.&F.S.S.	8658	kosmask@auth.gr
Kougioumtzis Dimitrios Professor, Dept. of Electrical & Computer Engineering	5955	dkugiu@auth.gr
Lalazisis Georgios Emeritus Professor, 4th fl., P.F.&F.S.S.	8352	glalazis@auth.gr
Maragkakis Michail Assist. Professor, Dept. of Physics, DUTH	2510-462262	mmara@duth.gr
Melas Dimitrios Professor, 2nd fl., E.F.&F.P.	8124	melas@auth.gr
Meletlidou Efthymia Assoc. Professor, 4th fl., A.A.M.	8583	efthymia@auth.gr
Moustakidis Charalampos Professor, 4th fl., P.F.&F.S.S.	8657	moustaki@auth.gr
Petkou Anastasios Professor, 4th fl., P.F.&F.S.S.	8157	petkou@physics.auth.gr
Papadopoulos Pantelis Professor, Obser. A.A.M.	8024	padelis@auth.gr
Pappas Georgios Assist. Professor, Obser. A.A.M.	8038	gpappas@auth.gr
Sampsonidis Dimitrios Professor, 1st fl., P.F.&F.S.S.	8209	sampson@physics.auth.gr
Sgardelis Stefanos Emeritus Professor	–	sgardeli@bio.auth.gr
Siampos Konstantinos Assist. Professor, 4th fl., P.F.&F.S.S.	8064	ksiampos@auth.gr
Stergioulas Nikolaos Professor, Obser. A.A.M.	8233	niksterg@astro.auth.gr
Tsiganis Kleomenis Professor, 4th fl., A.A.M.	8963	tsiganis@astro.auth.gr

Contact P.S.P.: pmscomphys@physics.auth.gr
Contact Secretariat (Officer: Kaimakamis Georgios)
Tel.: +30 2310 998150
Email: info@physics.auth.gr