



**Aristotle University of Thessaloniki**

**Faculty of Engineering**

**DPMS: Aerial Autonomous Systems**

# **Studies Guide**

**Academic Year 2024-2025**

**New Program of Studies**

**Applies to students admitted from Academic Year  
2024-2025**

**Web page:** <https://websites.auth.gr/uavmaster/>



**Thessaloniki, January 2025**

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## 1. Prologue

The Interdepartmental Postgraduate Program in Autonomous Aerial Systems aims to comprehend the fundamental concepts, principles, and technologies, as well as delve into advanced methods of analysis, design, optimization, and control of autonomous systems (unmanned vehicles). It integrates various areas of Engineering sciences, with particular emphasis on their application in innovative, wide-ranging applications including, among others, agricultural and topographic observations, forest area surveillance, prevention and assistance in natural disasters, Civil Protection, and cargo transportation.

The purpose of the MSc program is to equip students with advanced interdisciplinary skills required for the design, performance, optimization, operational utilization, and evaluation of the technical and economic sustainability of unmanned vehicle systems.

Within this framework, students will acquire specialized knowledge governing contemporary autonomous systems, characterized by interdisciplinary aspects, thus broadening the scope of the MSc program.

The expected learning outcomes and qualifications of those who successfully complete the program are estimated to be:

- Advancement of knowledge and development of research in the scientific and technological field of autonomous systems.
- Equipping graduates with the necessary knowledge required for their absorption into a demanding, rapidly changing environment, characterized by interdisciplinary features, as demanded by the new conditions prevailing worldwide.
- Coverage of knowledge for research and teaching needs in the broad field of design and construction, control, telecommunications, operational functioning, innovative mapping methods, and position determination through the combination of modern technologies.
- Preparation for postgraduate studies at the doctoral level.

## 2. University Calendar

1. The academic year starts on September 1<sup>st</sup> every year and ends on August 31<sup>st</sup> of the following year.
2. The educational work of every academic year is organized in two semesters, the fall semester and the spring semester, each of which comprises 13 weeks of teaching and two or three weeks of exams.
3. Fall semester courses start in the last week of September and end in late January, followed by the first exam period of the fall semester. Fall semester courses are examined during the exam period January-February.
4. Spring semester courses start in mid February and end at the end of May, followed by the first exam period of the spring semester. Spring semester courses are examined during the exam period of June.

Neither courses nor exams are held in July and August, the two months of summer holidays.

There are no courses and examinations on weekends and on the following holidays – anniversaries:

- **Christmas Holidays:** December 24 to January 7.
- **Carnival Holidays:** from Thursday before Lent to the day after Lent Monday.
- **Easter Holidays:** from the Monday of Easter Week to the Sunday after Easter Sunday.
- **October 26:** Saint Dimitrios Day – Feast of the city’s Patron Saint. Liberation of Thessaloniki from the Ottoman occupation (National Holiday).
- **October 28:** National celebration.
- **November 17:** Students’ uprising in the National Technical University of Athens against the junta in 1973.
- **January 30:** The Three Patron Saints of Education Day.
- **March 25:** National Anniversary of the revolution of 1821 against the Turkish rule.
- **May 1:** Labour Day.
- **Holy Spirit Day:** Monday (after Pentecost).



### 3. Administration of DPMS

Responsible bodies for the administration, organization, and operation of the MSc programs are:

1. The AUTH Senate, which is responsible for matters of an academic, administrative, organizational and economic nature, and exercises all responsibilities relating to the Program which are not specifically delegated by law to other bodies.
2. The Postgraduate Studies Committee, established by the decision of the Senate, consists of the competent Vice-Rector, who serves as President, as well as one (1) member of the Teaching and Research Staff (D.E.P.) from each School of the Aristotle University of Thessaloniki (AUTH), and one (1) member from the categories of Special Teaching Staff (E.E.P.), Laboratory Teaching Staff (E.DI.P), and Special Technical Laboratory Staff (E.T.E.P.) of AUTH. The members of the Committee have experience in organizing and participating in postgraduate programs. The Committee is valid for two (2) academic years.
3. The Program of Studies Committee, appointed by the Senate of AUTH upon the relevant proposals of the Schools Assemblies. Specifically in the Program of Studies Committee participates: Three (3) representatives with their alternates, during the first two years, from the School of Electrical and Computer Engineering, and two (2) representatives with their alternates from other collaborating Schools, Mechanical Engineering and Rural and Surveying Engineering, appointed by the Assembly of each School, based on their teaching and research contribution and experience in the subject area of the MSc program.

During the second two-year period, the School of Mechanical Engineering will participate with three (3) representatives, and during the third two-year period, the School of Rural and Surveying Engineering will participate with three (3) representatives. Other Schools will participate with two (2) representatives each. This process repeats cyclically.

In total, in the Program of Studies Committee participates seven (7) members of the Teaching and Research Staff.

By decision of the Program of Studies Committee, a Coordinating Committee is composed, with a two-year term, in which it is mandatory to participate the Director of the MSc program and four (4) members of the Program of Studies Committee.

The Program of Studies Committee is responsible for:

- a. To compose Committees for the evaluation of applications from prospective postgraduate students and approve their enrollment in the MSc program.
- b. To assign the teaching duties to the instructors of the MSc program.
- c. To propose to the AUTH Senate, the modification of the decision establishing the MSc program, as well as the extension of the duration of the MSc program.
- d. To compose examination committees for the examination of the Master thesis of postgraduate students and appoints the supervisor for each project.
- e. To verify the successful integration of the studies in order to award the title of MSc.
- f. To approve the evaluation report of the MSc program, following the recommendation of the Coordinating Committee.

By decision of the Program of Studies Committee, the responsibilities of subparagraphs (a) and (d) may be transferred to the Coordinating Committee (C.C.) of the MSc program.

4. In The Coordinating Committee (C.C.) of the MSc program, which is composed by the decision of the Program of Studies Committee, participates the Director of the MSc program and four (4) members from the Program of Studies Committee.

The C.C. has the following responsibilities:

- a.** prepares the initial annual budget of the MSc and its amendments, if the MSc has resources, according to article 84 of Law 4957/2022, and recommends its approval to the Special Account for Research Funds (ELKE AUTH).
- b.** prepares the final report of the D.P.M.S. and recommends its approval to the Program of Studies Committee,
- c.** Approve the expenses of the D.P.M.S.
- d.** Approves the awarding scholarships, either compensatory or non-compensatory, in accordance with the provisions of the founding decision of the D.P.M.S. and the Regulation of Graduate and Doctoral Programs.
- e.** Recommends to the Program of Studies Committee the allocation of teaching work, and the assignment of teaching work to the categories of teaching staff, as referred to in Article 83 of Law 4957/2022.
- f.** Recommends to the Program of Studies Committee, the invitation of Visitors Professors to cover the teaching needs of the D.P.M.S.
- g.** Creates a plan for the modification of the program of studies, which shall be submitted to the Program of Studies Committee.
- h.** Recommends to the Program of Studies Committee, the redistribution of courses between academic semesters, as well as issues related to the qualitative updating of the program of studies.

Emeritus Professors of the School or collaborating Schools, may participate in the C.C., provided they teaching services in the D.P.M.S.

The Director of the D.P.M.S. is appointed by the Program of Studies Committee for a two-year term, in a circularly system, among the regular representatives from the Schools of: 1) Electrical and Computer Engineering, 2) Mechanical Engineering, and 3) Rural and Surveying Engineering, in the order mentioned.

The Director has the responsibilities outlined in Article 82, paragraph 4 of Law 4957/2022, as well as any other duties specified in the founding decision of the D.P.M.S.:

- a.** Presides over the C.C. and the Program of Studies Committee, prepares the agenda, and convenes the meetings.
- b.** Recommends proposals regarding the organization and operation of the D.P.M.S. to the Program of Studies Committee.
- c.** Proposes to the C.C. and other bodies of the D.P.M.S. and the Institution, issues concerning the effective functioning of the D.P.M.S.
- d.** He is the Scientific Coordinator of the D.P.M.S. according to Article 234 of Law 4957/2022 and exercises the respective responsibilities.

- e. He watches the implementation of decisions made by the bodies of the D.P.MS. and the Regulation of Graduate Studies, as well as the budget implementation of the D.P.M.S. The Director of the D.P.M.S., as well as the members of the C.C. and the Program of Studies Committee, are not entitled to any fee or compensation for carrying out their assigned responsibilities related to the execution of their duties.

The administrative support for the program will be provided by the Secretariat of the coordinating School of Electrical and Computer Engineering in collaboration with the Secretariat of the D.P.M.S. The D.P.M.S. Secretariat is responsible for maintaining records and grades of graduate students. Additionally, it informs graduate students about matters related to the organization and operation of the D.P.M.S. Lastly, it is responsible to recommend the agenda for the Program of Studies Committee's meeting.

## 4. Admission to the D.P.M.S.

According to the establishment FEK of the D.P.MS. , number /2024, the D.P.MS. accepts holders of degrees/diplomas from Higher Education Institutions who come from Schools/Departments of Engineering, Physics, Informatics, and Mathematics from domestic institutions or equivalent recognized institutions abroad. Exceptionally, graduates from other Schools of Science are accepted, if they can demonstrate many years of professional experience of an appropriate level in relevant subject areas, as well as graduates from military production schools.

The number of admissions per year is set at a minimum of 20 and a maximum of 35 postgraduate students. The D.P.M.S. cannot operate with fewer than 20 postgraduate students.

The D.P.M.S, following the Program of Studies Committee's decision, announces positions through an open process. Specifically, the announcement details and the admission requirements, the number of admissions, the categories of candidates, the method of admission, the selection criteria, etc., the application deadlines, and the required documents.

The notice of admission of postgraduate students is published on the website of the D.P.M.S. and the participating Schools/Departments. Applications accompanied by the necessary supporting documents are submitted to the Secretariat of the MSc in either paper or electronic form.

The documents are the following:

- Application form, available from the D.P.M.S.
- ID card or passport.
- Curriculum Vitae
- Undergraduate and, if available, postgraduate qualifications documents.
- Transcript of Records for undergraduate and/or postgraduate studies, or submission of the Diploma Supplement that accompanies each degree/diploma.
- Two (2) letters of recommendation.
- Certificate of English language (at least B2 level).
- In addition to the above documents, the applicant may submit, if available:
  - a) Diploma or diplomas of postgraduate studies in a Greek University or a similar institution abroad.
  - b) PhD degree from a Greek University or a similar institution abroad.
  - c) Certificates of a possible very good knowledge of French, German, Italian, Spanish or Russian language.

If the candidate is a foreigner, he/she may submit certificates of knowledge of Greek language.

- d) Supporting documents for any research and writing activity, participation in student mobility educational programs, and professional or related experience.
- e) Certificates of previous work experience.

The above documents are submitted either as original copies or as plain photocopies.

**The selection criteria** for candidates:

- The overall grade of the degree.
- The performance of the candidate in relevant undergraduate courses related to the D.P.M.S.
- The performance of the candidate in his/her thesis or final project (undergraduate or postgraduate).
- Any relevant professional or research activity related to the subject area of the D.P.M.S.
- Possession of other diplomas or postgraduate studies titles, relevant to the subjects of the D.P.M.S.
- Publications in scientific journals and conference records.
- Knowledge of the English language, as a necessary prerequisite, at least at level B2, according to the European Framework of Reference for Languages (CEFR), which is accepted by the A.S.E.P. Alternatively, the candidate can submit a degree/diploma or a postgraduate diploma from a Greek university or a recognized foreign university, which confirms the successful completion of an English undergraduate or postgraduate program.

The **selection process** of the candidates by decision of the Program of Studies Committee, is carried out by a three (3) member Selection and Examination Committee, consisting of Teaching and Research Staff of the faculty who have undertaken postgraduate project.

The Committee prepares a complete list of all candidates and, after the relevant review, rejects those who do not have the minimum criteria, set by the School, and invites for an interview, where applicable, the candidates who have the prerequisites.

For the quantitative evaluation of the criteria, a point system is applied to each criterion as follows:

**Degree Points:** They are calculated using the type "Coefficient\*(degree grade or diploma grade)."

**Thesis Points:** The grade of the thesis, if the thesis is relevant to the subject area of the Master's program. Maximum 10 points.

**Undergraduate degree relevance points:** The relevance of the undergraduate degree to the cognitive subject area of the participating Schools, receives a maximum of 10 points.

**Points for relevant postgraduate studies:** Having a postgraduate degree in a related field of studies to the program, receives 10 points.

**Points for Related Publications:** Publications related to the field of studies, receive a maximum of 15 points.

**Points for Relevant Research and/or Professional Experience:** A maximum of 10 points.

**Points for Letters of Recommendation:** A maximum of 5 points.

The Committee completes a full list of all the candidates and after a thorough review, rejects those who do not have the minimum criteria established by the responsible School, and invites for an interview, where applicable, the candidates who have fulfilled the prerequisites.

**Oral Interview:** The oral interview is conducted by the Selection Committee of the MSc Program and aims to verify the academic knowledge required for attending the MSc program and evaluate the candidate's abilities in areas such as reading and comprehension, analytical skills, reasons for choosing this specific graduate program, etc. In the interview, reference may also be made to the personal statement submitted by the candidates. The interview is graded on a scale of 1 to 20, and the final score is the average of the grades given by the three members of the Selection Committee.

In case of a tie, candidates are accepted up to the maximum limit, that has been specified, ensuring that this limit is not exceeded. If the number of candidates exceeds the maximum limit, priority is given to those with higher degree grades. After that, comes the evaluation of previous research project and publications, followed by the knowledge level of the foreign language.

After completing the process, the final list of successful candidates is compiled, approved by the Program of Studies Committee, and posted on the notice board of the Secretariat and on the MSc program's website.

Objections can be submitted within a deadline of five (5) calendar days from the publication of the results.

The Enrollments of the postgraduate students, who have been approved, begins after the announcement of the Secretariat of the MSc Program, specifying their duration and the necessary documentation. If a candidate does not enroll within the specified deadline, it is considered a refusal of acceptance of the position, and it is covered by the next successful candidate in line.

## 5. The Program of Studies of D.P.M.S.

The D.P.M.S. program is structured over three (3) semesters, and the total ECTS required to obtain the Master's Degree is 90.

In the 1st semester (A' semester), 6 compulsory courses are taught. In the 2nd semester (B' semester), students choose 6 courses from the total offered.

In the 3rd semester students work on their master thesis.

The **official language** of the program is English. Notes and bibliography are provided in English, and the language for the master thesis is also English.

The detailed study program, as shown in the next section, includes the content of courses, compulsory and elective courses, semesters of study, the timetable, teaching hours, and the credits for each course, as well as the Master's thesis (MSc) requirements for obtaining the Master's Degree. Details about the preparation of the MSc thesis are also provided in section 4.

The detailed study program is posted on the website of the MSc program.

## 5.1 Program of Studies Structure

1 <sup>st</sup> Semester (Total ECTS 30) (All Compulsory)				
a/a	Course Title	Course Type (compulsory/ elective)	Distance Learning	ECTS
1	Sensor systems for autonomous vehicles – UAVs	C	80%	5
2	Advanced Aerodynamics	C	80%	5
3	Intelligent Robotic Systems	C	100%	5
4	GNSS and Inertial positioning for Autonomous Systems	C	80%	5
5	Dynamics and Control I	C	80%	5
6	Lightweight materials (incl. composites), specifications and requirements for UAV applications	C	100%	5
2 <sup>nd</sup> Semester (Total ECTS 30) (All Elective)				
a/a	Course Title	Type of Course (compulsory/ Elective)	Distance Learning	ECTS
1	Big data Analysis	E	50%	5
2	Structural design - Hardware system design of UAV's (synthesis, static and quasistatic analyses)	E	100%	5
3	Manufacturing of lightweight systems focusing on UAV applications.	E	80%	5
4	Fixed wing UAV layout design and synthesis.	E	80%	5
5	Flight Mechanics and UAV Performance	E	80%	5
6	Unmanned Aerial Vehicles as Mapping Systems	E	100%	5
7	Advanced topics to Wireless Communications	E	100%	5
8	Dynamics and Control II	E	80%	5
9	Advanced RF aspects of UAVs	E	80%	5
10	Airworthiness	E	80%	5
3 <sup>rd</sup> Semester (Total ECTS 30)				
a/a	Course Title	Type of Thesis	Teaching Hours	ECTS
1	Master's Thesis	Y		30

## 5.2 Detailed Program of Studies

<i>Course title</i>	<i>Course type</i>	Credits <i>(ECTS)</i>	Teaching Hours/ week	Teaching Staff
Sensor systems for autonomous vehicles – UAVs	Compulsory (C)	5.0	2	Alkiviadis Hatzopoulos, Ioannis Papaefstahtiou
Advanced Aerodynamics	C	5.0	2	Kyros Yakinthos, Periklis Panagiotou
Intelligent Robotic Systems	C	5.0	2	Andreas Symeonidis Dr. Eng. Emmanouil Tsardoulis
GNSS and Inertial positioning for Autonomous Systems	C	5.0	2	Christos Pikridas Stylianos Bitharis
Dynamics and Control I	C	5.0	2	D.Giagopoulos, P. Seferlis, S. Natsiavas
Lightweight materials (incl. composites), specifications and requirements for UAV applications	C	5.0	2	Georgios Savvaidis
<b>Total</b>		30	12/week	

### *2<sup>nd</sup> Term*

6 courses from the following list

<i>Course title</i>	<i>Course type</i>	Credits <i>(ECTS)</i>	Teaching Hours/ week	Teaching Staff
Big data Analysis	Elective (E)	5.0	2	Andreas Symeonidis Dr. Eng. Emmanouil Tsardoulis
Structural design - Hardware system design of UAV's (synthesis, static and quasistatic analyses)	E	5.0	2	Georgios Savvaidis
Manufacturing of lightweight systems focusing on UAV applications.	E	5.0	2	Georgios Savvaidis

Fixed wing UAV layout _ design and synthesis.	E	5.0	2	Kyros Yakinthos, Periklis Panagiotou
Flight Mechanics and UAV Performance	E	5.0	2	Kyros Yakinthos, Periklis Panagiotou
Unmanned Aerial Vehicles as Mapping Systems	E	5.0	2	Petros Patias
Advanced topics to Wireless Communications	E	5.0	2	George Karagiannidis
Dynamics and Control II	E	5.0	2	P. Seferlis D. Giagopoulos S. Natsiavas,
Advanced RF aspects of UAVs	E	5.0	2	Christos Antonopoulos, Zaxarias Zaxaris
Airworthiness	E	5.0	2	Periklis Panagiotou
<b>Total</b>		<b>30</b>	12/week	

		<b>Master's Thesis</b>		<b>30</b>
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Teaching Staff of D.P.M.S.

## 6. Master's Thesis

Once the postgraduates students have successfully passed all the courses of the 1st and 2nd semesters of the MSc program, they may begin the process of preparing their master's thesis during the 3rd semester.

For the preparation of the Master's Thesis, the Program of Studies Committee, upon the candidate's request during specified dates, which includes the proposed title of the thesis, the suggested supervisor, an abstract of the proposed thesis, appoints the supervisor of the thesis and establish a three-member Examination Committee to approve the thesis. One of the three member Committee is the supervisor.

Faculty members have the right to supervise thesis within the categories as described in article 83 of law 4957/2022:

- a. Members of the Academic Research Staff, Special Teaching Staff (E.E.P.), Laboratory Teaching Staff (E.DI.P.), and Special Technical Laboratory Staff (E.T.E.P.) of the School or other Schools of the same or another Higher Education Institution (A.E.I.) or Higher Military Education Institution (ASEI), with additional employment beyond their legal obligations.
- b. Emeritus Professors or retired Members of the Academic Research Staff of the participating Schools or other Schools of the same or another Institution.
- c. Collaborating Professors.
- d. Appointend Teaching Staff.
- e. Visiting Professors or visiting Researchers.
- f. Researchers and specialized scientists of research and technological organizations, Article 13A of Law 4310/2014 (FEK A' 258), or other research centers and institutes within Greece or abroad.

The members of the three-member Examination Committee must have the same or related scientific specialization as the subject area of the D.P.M.S.

The preparation of the Master's Thesis governed by the Academic Code of Ethics of the Aristotle University of Thessaloniki. Every creator or co-creator of any intellectual project is entitled to be credited and recognized as such, enjoying both the intellectual and moral rights/powers that arise from the specific project.

In exceptional cases, if the original intellectual creation ("project") is the final paid research project assigned by an institution outside the A.U.T.H, the economic rights of the creator or co-creators may be limited under the terms of the contract which the research project is commissioned, while the moral rights remain with the creator or co-creators, and there are under the necessary contractual restrictions for the exploitation/commercial utilization of the intellectual work.

For the presentation of the Master's Thesis, a positive recommendation from the Three-Member Examination Committee is required. In case that the support of the Master's Thesis is conducted publicly, a specific date and place are set by the Coordinating Committee of the D.P.M.S.

After the presentation of the Master's Thesis, a report is drafted in which the individual grade of each member of the Three-Member Examination Committee is recorded, the average grade, as well as any comments or observations. The master's thesis, after its approval by the Committee, is mandatorily posted on the School's website. If the evaluation of the Master's Thesis is negative, the postgraduate student may resubmit his/her thesis, incorporating the comments for improvement within a time frame set by the Three-Member Examination Committee. If the second evaluation is also negative, the postgraduate student loses the right to be awarded the Master's Degree.

In exceptional cases, if there is an objective inability or a significant reason, it is possible to replace the supervisor or a member of the Three-Member Examination Committee, as well as change the topic of the Master's Thesis, following a decision by the Program of Studies Committee.

The total duration of the examination is at least thirty (30) minutes and at most forty-five (45) minutes. The allocated time for the questions from the examiners cannot be less than ten (10) minutes.

In the evaluation, the scientific quality, the integrity of the text and the oral presentation are considered, as well as the knowledge of the subject area, as inferred from the examinee's responses to the examiners' questions. Following the approval by the Committee and incorporation of possible corrections and observations by the student, the thesis is mandatory posted on the website of the Central Library of the Aristotle University of Thessaloniki (AUTH) and recorded in the master's thesis archive of the Postgraduate Program.

The language of writing and examination for the master's thesis, is English. The title and abstract must also be translated into Greek. The master's thesis typically does not exceed 100 pages and includes: a cover page with thesis details, an abstract, title and abstract in Greek, table of contents, main chapters of the thesis, references, and appendices. The page size is A4. The sections 'Summary' and 'Table of Contents' do not have page numbers, and their pages can be numbered using Roman numerals. The chapters and any subchapters of the main body of the thesis are numbered. (π.χ. Chapter 2, Section 2.1, Subsubsection 2.1.1 etc, numbered up to four digits). The titles of Chapters are written in bold capital letters and the titles of Sections are written in bold small letters. The first page of the first chapter of the main body, is the page from which the page numbering begins (and is referenced in the table of contents). Tables and figures include captions and are numbered by chapter, e.g Table 2.1, Figure 3.2 etc.). The fonts may be Times New Roman or Arial, sized at 11 or 12 points. Equations are also numbered by chapter, placed in parentheses on the right side of the page, aligned with the corresponding numbering. Appendices must also include numbering and titles (e.g. Appendix A1, Appendix A2, etc.).

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## 7. Internal Regulation of Operation

The Internal Regulation of Operation of the MSc "Aerial Autonomous Systems" (FEK ...) include detailed information regarding the organization and functioning of the Master's Program, and in particular students admission (number, criteria, procedure), teaching staff, the structure and content of the Program of Studies, as well as information regarding the rights and obligations of students.

**The full Internal Regulation of Operation of the MSc program, as well as other relevant regulations, are available at the link.: <https://websites.auth.gr/uavmaster>**

### **Key points of the Internal Regulation of Operation of the MSc:**

1. The assessment in individual courses or other educational activities (e.g., practice/clinical training) is conducted at the end of each semester through written or oral exams, assignments, or a combination of the above.
2. The assessment method is defined by the instructor of each course at the beginning of the academic semester. The percentage of participation in other educational activities (such as laboratory exercises, assignments, and seminars where applicable), in the final grade of each course, is specified individually for each course, following the instructor's recommendation and is approved by the Coordination Committee of the MSc program.

3. The grading scale for evaluating the performance of postgraduate students is defined from zero (0) to ten (10), as follows:
  - Excellent (8,5 έως 10)
  - Very Good (6,5 έως 8,49)
  - Good (6 έως 6,49).The passing grade is six (6) and above.
4. Part-time enrollment is available for postgraduate students, with a duration not exceeding twice the normal duration of study, i.e., six (6) semesters.
5. In addition, postgraduate students who have not exceeded the normal duration of study may be granted, upon application, a suspension of studies, which should not exceed two (2) consecutive semesters. During the period of suspension, the postgraduate student shall lose his/her student status.
6. Upon a justified request submitted before the completion of the normal duration of studies, postgraduate student may apply for a one-year extension to complete his/her studies or to complete his/her master's thesis. The Coordinating Committee submits a request to the Program of Studies Committee, stating the reasons for the requested extension, which then approves or rejects the extension request. If the postgraduate student has not completed his/her studies after the extension period, he/she is dismissed from the MSc program by decision of the Program of Studies Committee.
7. The Program of Studies Committee may dismiss a postgraduate student for the following reasons:
  1. Student's application
  2. Unjustified exceeding of the maximum allowed absences due to force majeure reasons, defined as exceeding 20% of the total hours of the course.
  3. Inadequate performance of obligations, such as failure to submit assignments, non-participation in exams, exceeding the time limit for preparation the Masters's thesis without adhering to the provisions outlined in Article 5 of these regulations.
  4. Behaviors that violate academic ethics, such as plagiarism, cheating in examinations.

Postgraduate students are required to:

1. Attend all courses of the MSc program continuously. Attendance is mandatory for all classes, lectures, seminars, workshops, and other activities. Absences are allowed up to 10% of the total hours per semester, but must not exceed the 20% per course. In case of professional work or other serious reasons that are formally admitted in a written request by the student, absences can be allowed up to the double of the standard limit, after the request's examination and approval, by the Program of Studies Committee. In laboratories, attendance is mandatory without the possibility of absence. In case of absence due to force majeure, makeup sessions are possible on another date, with the instructor's consent. In case of a request for a re-examination of a course, absences are taken into account by the Program of Studies Committee, in order to decide

on the request. Otherwise, the postgraduate student is required to retake the course the next academic year.

2. To submit their courses registration within the specified deadline each semester.
3. To submit their assignments within the specified deadlines for each course.
4. To attend examinations.
5. To submit to the Secretariat, along with their thesis for evaluation, a declaration stating that there are no elements of plagiarism included.
6. To pay tuition fees within the specified dates.
7. To settle all their financial obligations to the Institution, as well as any other obligations, before the graduation ceremony. Otherwise, they will not be eligible to take the oath and/or receive the Master's degree diploma.
8. If they have received a scholarship, to provide reciprocal work, if required (tutoring, contribution to the library and research, and where needed in University services).
9. It is possible to study simultaneously in an undergraduate program and a postgraduate program, or in two (2) of the same or another School of the same or another Institution.
10. They are required to respect and follow the decisions of the bodies of the postgraduate program as well as academic ethics. Failure to comply the above, without justified reasoning, may lead to failure in a course or exclusion from the program.

Upon starting the postgraduate program, each postgraduate student is assigned a permanent member of the Faculty Teaching Staff, of the postgraduate program as his/her **Academic Advisor**. The role of the Advisor is to check the progress of students' studies, be informed by the instructors about any continuous absences of the student, which are under his/her responsibility, and to receive relevant notifications (via the Secretariat) that such absences may lead to failure in the course. In addition, the Academic Advisor provides assistance, regarding the selection of the master's thesis, taking into account the research interests of the postgraduate student. Postgraduate students are required to contact their Academic Advisor for any issue that may affect the smooth progress of their studies. The Academic Advisor provides the necessary guidance to the postgraduate student to respond to the requirements of the M.Sc. program. The Academic Advisor ensures regular meetings with the postgraduate students, he/her supervising, not less than twice per semester.

The D.P.M.S is funded through tuition fees, paid by graduate students, as specified in the founding decision. Any other potential sources of funding (e.g., Budget of the Aristotle University of Thessaloniki, Donations, Grants, Endowments, Sponsorships, Public Sector Entities, Research Programs Funds including European Union Programs Funds or Other International Organizations, provided that expense categories are eligible, Special Account for Research Funds, any other legal basis) will be utilized to enhance the offered education and training of postgraduate students and potentially reduce tuition fees.

The tuition fees, €6000.00 for EU citizens and €9000.00 for non-EU citizens, are paid either in installments by the students themselves or by a third party, either a natural or legal person, on behalf of the students, on September for the 1st and 3rd semester, and on February for the 2nd semester, in equal installments of €2000.00 and €3000.00, respectively. In particular, following the announcement of the selection results for admission to the first semester of studies, a prepayment of €500.00 is due within the first

month, which is deducted from the first installment. In case the time period elapses, the registration is considered invalid, and the next eligible candidate is invited to enroll.

## 8. Useful Information

### Secretariat

The Secretariat of the School of Electrical and Computer Engineering is located on the ground floor of Building D, at the Faculty of Engineering. The Secretariat accepts postgraduate students daily (Monday to Friday) from 10:30 AM to 12:00 PM.

The Head of the Secretariat is Mrs. Mavridou Evdoxia (Tel: 2310 996395)

e-mail: [evmavrid@ece.auth.gr](mailto:evmavrid@ece.auth.gr)).

e-mail: [info@ece.auth.gr](mailto:info@ece.auth.gr), Τηλέφωνο: 2310996392, 2310-996395.

### Institutional Account

The Institutional Account (University ID) is essential for using the electronic services provided to the academic community of AUTH. It consists of a username and a password, which are the same to all the electronic services that requires authentication via the university ID. Upon registration, postgraduate students receive their institutional account details, through the Information Technology Center of the Aristotle University of Thessaloniki. ([www.it.auth.gr](http://www.it.auth.gr)).

### Academic ID

Postgraduate students can submit their electronic application to issue the academic ID, throughout the academic year.

The academic ID is valid for the duration of the student's enrollment years and covers multiple uses, in addition to the Student ID card (PASO). The new IDs specify the exact period of validity for the Student ID entitlement. In cases where a student is not eligible for a Student ID, the card serves as a regular identification card. The IDs are delivered at the pickup location, chosen by each student, during the application submission. The academic ID will remain at the pickup location for two months, from the day it is printed, along with the relevant notification to the student.

Applications: <https://submit-academicid.minedu.gov.gr/>

### Courses Registration

Course registrations are available electronically, according to a relevant announcement from the Secretariat of the MSc program, using the institutional account, through <https://sis.auth.gr/>

## Classrooms

The Interdepartmental Postgraduate Program (D.P.M.S.) “Autonomous Aerial Systems” organizes its educational process using methods of distance learning. Specifically, the Interdepartmental Postgraduate Program (D.P.M.S.) “Autonomous Aerial Systems” adopts a blended learning system with 80% modern distance education and 20% in-person sessions, excluding laboratories which will be conducted entirely in person.

## Library

The Library of the School of Electrical and Computer Engineering (ECE) is one of the peripheral libraries of Aristotle University of Thessaloniki (AUTH) and belongs to the system [Libraries of Aristotle University of Thessaloniki](#). The library serves the members of the School of Electrical and Computer Engineering and the Institution community but is also open to external users. It contains books covering all thematic areas related to science. Our collection consists of approximately 10,500 titles of printed books. Using internet capabilities, the library provides access to databases and a large number of scientific electronic journals.

Additionally, there are 46 seats available for visitors to sit and read. The entire library and reading room area, are equipped with free wireless internet access. The School’s Library is located on the 2nd floor of Building C' of the Faculty of Engineering and it is open to the public, daily from Monday to Friday, 09:00 to 14:00.

Mrs. Hatzikoukoutsis Giouli, tel. 2310/996352

## Informatics Labs

In the School of Electrical and Computer Engineering, there is an informatics Lab (Vergina), available for conducting courses. It is located in the Faculty of Engineering campus, extension E10 (Civil Engineering), Basement 1.

Responsible Person: P. Triantafyllidis -2310-994379, email [pstriant@ece.auth.gr](mailto:pstriant@ece.auth.gr)

The Computers Lab of the School of Mechanical Engineering, started operating in 2003 equipped initially with 10 computers and has now expanded to accommodate 28 PCs powered by Intel® Core™ i7 technology, with 8-64 GB of RAM, after equipment upgrades funded by public expenses and a significant donation from the company, [BETA-CAE](#). Each computer is accompanied by a 15" or 19" TFT monitor, and there is also a projector installed for the academic needs of the courses conducted there. The Computers Lab it is used exclusively for conducting courses, as well as for performing specialized computations and tasks by students and student teams. The Computers Lab is located on the ground floor of Building D, across from the School’s Secretariat.

Responsible Person: Professor, Karatzas Kostas, [kkara@auth.gr](mailto:kkara@auth.gr)

## Other Services

- **Electronic Updates:** Through the myAuth application (available on Android and iOS), students can stay informed about various student services using their mobile phones. These include the schedule for the University Gym, the menu at the University Student Club, availability status of the Computer Labs, access to the campus map, and the latest announcements from the Institution.
- **E-Learning:** Through the platform <https://elearning.auth.gr/>, all courses of the MSc program are electronically supported. In this environment, students can register and access materials related to their courses, electronically submit assignments, receive corrections and feedback, participate in discussion forums for exchanging ideas about the courses, and receive electronic messages from instructors. There is also the option for remote teaching through video conferencing within the e-learning environment using <https://vconf.auth.gr/b>, or using other teleconferencing services provided by <https://it.auth.gr/services/academicsupport/> at AUTH.
- **Catering and health care services** are provided by the University Student's Club of AUTH ([https://www.auth.gr/university\\_unit/pfl/](https://www.auth.gr/university_unit/pfl/)). These services are offered to eligible students based on specific criteria.
- **Accommodation:** Aristotle University of Thessaloniki provides the opportunity for free accommodation in Students Residence to eligible students of the B' cycle of studies ([https://www.auth.gr/university\\_unit/pfe/](https://www.auth.gr/university_unit/pfe/)).
- **Health and Social Services of AUTH:** These include the Primary Health Care Center ([https://www.auth.gr/university\\_unit/kpfy/](https://www.auth.gr/university_unit/kpfy/)), the Counseling and Guidance Center ([https://www.auth.gr/university\\_unit/kesypsy/](https://www.auth.gr/university_unit/kesypsy/)), and the Students Health Services/Insurance/Special Needs Committee (<https://www.auth.gr/healthservices/>).
- **Carrer Service Office (DASTA),** <https://www.dasta.auth.gr/>): The goal is to assist students and graduates of AUTH in approaching their future career paths and seeking employment relevant to the knowledge gained from their studies, by providing information about the opportunities available to them, both for continuing their studies and transitioning into the job market.
- Within the framework of student's care, there is also the Committee on Gender and Equality Issues (<https://www.auth.gr/committee/com-gaei/>), as well as the Support Office for Students from Vulnerable Social Groups (<https://studentaid.auth.gr/>), as well as the Student's Advocate (<https://www.auth.gr/synigoros-tou-foititi/>) which ensures the legality and academic ethics and order of Academic Freedom and addresses instances of maladministration in order to ensure the operation of the Institution. In students benefits there are included, the Institution's Gym (<https://gym.auth.gr/>), the Calandra Institution's Camp ([https://www.auth.gr/university\\_unit/camping/](https://www.auth.gr/university_unit/camping/)) and the Children's center (<https://paidiko.auth.gr/>), which provides its services to the parent-students.
- **Other digital Services** (<https://it.auth.gr/>): Digital services available to post graduate students are:
  - 1) Wireless Network – eduroam, 2) Virtual Network (VPN), 3) Remote Access, 4) Personal Storage (cloud), 5) Creating Web pages, 6) Shared Software, 7) Online Registration to laboratory course through the School's webpage and the Institutional Account.

## 9. Staff Contact Details (alphabetical)

Όνοματεπώνυμο	Τηλέφωνο	E-mail
<b>Bitharis Stylianos</b> Assistant Professor School of Rural and Surveying Engineering	2310 996091	<a href="mailto:smpithar@topo.auth.gr">smpithar@topo.auth.gr</a>
<b>Chatzopoulos Alkiviadis</b> Professor School of Electrical & Computer Engineering	2310 996305	<a href="mailto:alkis@ece.auth.gr">alkis@ece.auth.gr</a>
<b>Giagopoulos Dimitrios</b> Associate Professor, School of Mechanical Engineering	2310 994219	<a href="mailto:dgiagopoulos@meng.auth.gr">dgiagopoulos@meng.auth.gr</a>
<b>Karagiannidis George</b> Professor School of Electrical & Computer Engineering	2310 994178	<a href="mailto:geokarag@ece.auth.gr">geokarag@ece.auth.gr</a>
<b>Natsiavas Sotirios</b> Professor, School of Mechanical Engineering	2310 996088	<a href="mailto:natsiava@meng.auth.gr">natsiava@meng.auth.gr</a>
<b>Panagiotou Periklis</b> Assistant professor, School of Mechanical Engineering	2310 990569	<a href="mailto:peripan@meng.auth.gr">peripan@meng.auth.gr</a>
<b>Papaefstathiou Ioannis</b> Professor School of Electrical & Computer Engineering	2310 996282	<a href="mailto:ygp@ece.auth.gr">ygp@ece.auth.gr</a>
<b>Patias Petros</b> Professor School of Rural and Surveying Engineering	2310 996116	<a href="mailto:patias@topo.auth.gr">patias@topo.auth.gr</a>
<b>Picridas Christos</b> Professor School of Rural and Surveying Engineering	2310 996110	<a href="mailto:cpik@topo.auth.gr">cpik@topo.auth.gr</a>
<b>Savvaidis Georgios</b> Professor, School of Mechanical Engineering	2310 996005	<a href="mailto:gsavaidis@meng.auth.gr">gsavaidis@meng.auth.gr</a>
<b>Seferlis Panagiotis</b> Professor, School of Mechanical Engineering	2310 994229	<a href="mailto:seferlis@meng.auth.gr">seferlis@meng.auth.gr</a>
<b>Symeonidis Andreas</b> Professor School of Electrical & Computer Engineering	2310 994344	<a href="mailto:symeonid@ece.auth.gr">symeonid@ece.auth.gr</a>
<b>Tsardoulias Emmanouil</b> Post-Doctoral Researcher School of Electrical & Computer Engineering	-	<a href="mailto:etsardou@ece.auth.gr">etsardou@ece.auth.gr</a>

**Yakinthos Kyriakos**  
Professor, School of Mechanical Engineering

2310 996411

[kyak@meng.auth.gr](mailto:kyak@meng.auth.gr)

**Zaxaris Zaxarias**  
Laboratory Teaching Staff (E.DI.P.)  
School of Electrical & Computer Engineering

2310 994126

[zaharis@ece.auth.gr](mailto:zaharis@ece.auth.gr)

### Secretarial Support

**Koureta Ioanna**  
School of Electrical & Computer Engineering

2310 996392

[ikoureta@ece.auth.gr](mailto:ikoureta@ece.auth.gr)

**Mavridou Eudoxia**  
School of Electrical & Computer Engineering

2310 996395

[evmavrid@ece.auth.gr](mailto:evmavrid@ece.auth.gr)



**Contact with D.P.M.S.:** [uav@auth.gr](mailto:uav@auth.gr)

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