ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
AGRICULTURAL UNIVERSITY OF ATHENS

DEPARTMENT OF FORESTRY AND NATURAL ENVIRONMENT MANAGEMENT

STUDY GUIDE

DEPARTMENT OF FORESTRY
AND NATURAL ENVIRONMENT MANAGEMENT

KARPENISSI 2025

PREFACE

The purpose of this study guide is to serve as a useful tool for the students of the Department of Forestry and Natural Environment Management at the Agricultural University of Athens, as well as for anyone interested in the studies, educational and research activities, administrative procedures, and student services offered by our Department. It provides information on the curriculum and course content, operational rules, administration and organization of the Department, student housing conditions, and the professional opportunities available to our graduates.

This edition represents a contribution to the ongoing effort by the Department of Forestry and Natural Environment Management to provide an enhanced theoretical and practical university education in the science of Forestry and Natural Environment Management. Its goal is to cultivate capable and effective graduates who, in their professional careers, are able to meet the contemporary needs and challenges of Forestry and Natural Environment Management.

Karpenissi, 2025

The Head of the Department
Andreas Papadopoulos
Professor

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The Prefecture of Evrytania and the City of Karpenissi

The Prefecture of Evrytania, with an area of 1,870 km² and a population of 17,428 according to the 2021 census, is located in the center of Central Greece, at the southern end of the Pindus mountain range. It is one of the most mountainous prefectures in the country, with forests and wooded areas covering up to 85% of its territory. Its capital, Karpenissi, has 7,920 inhabitants, is situated at an altitude of 960 meters, and is 71 km from Lamia, 98 km from Agrinio, and 283 km from Athens.

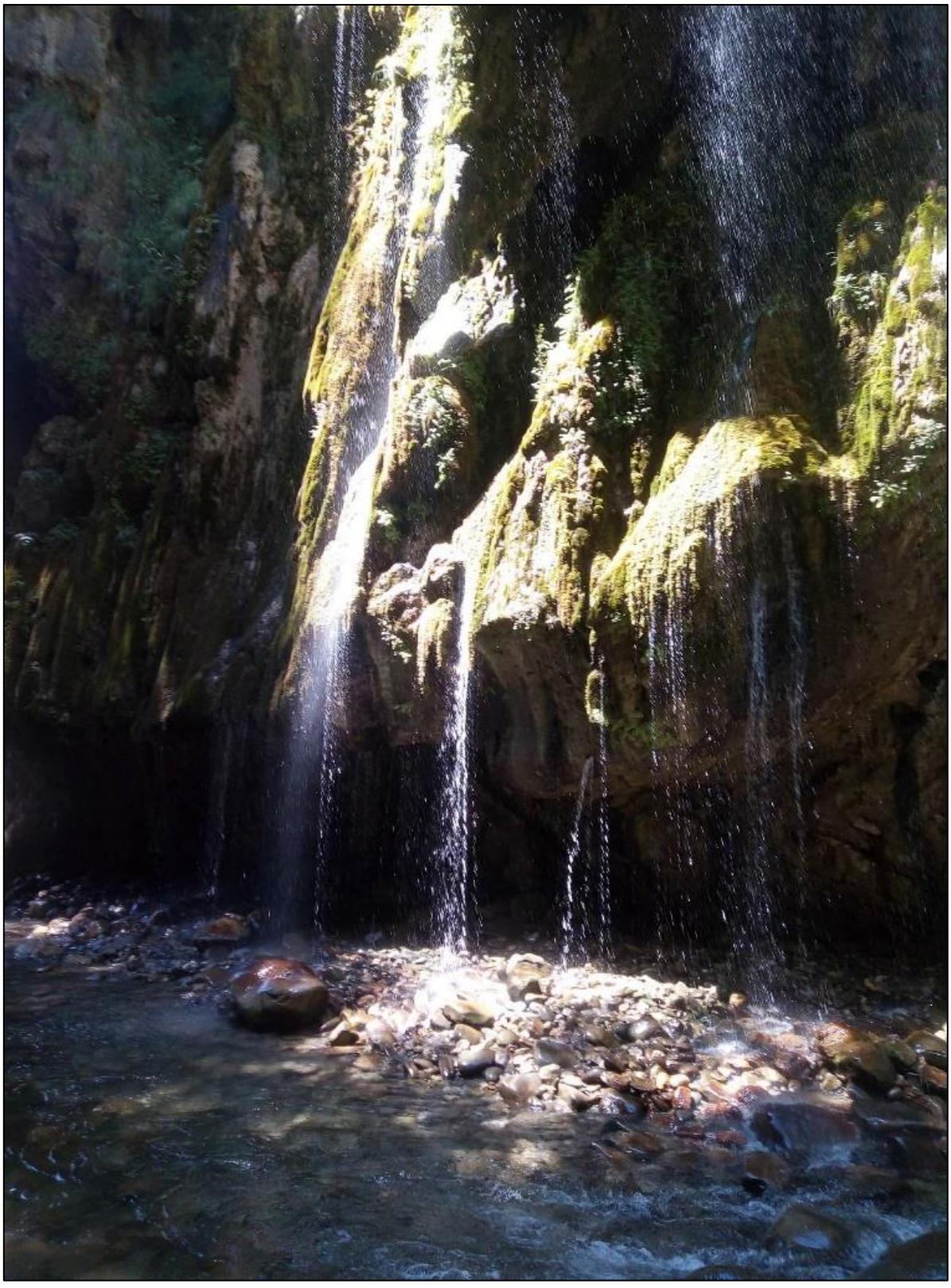
The City of Karpenissi

According to Homeric testimony, the region of Evrytania must have been inhabited from very early times. In fact, the capital of ancient Evrytania is said to have been the city of Oichalia, whose exact location remains unidentified. The most likely origin of the name "Evrytania" is derived from its first king, Eurytos. The current capital of the prefecture, Karpenissi, is believed to have been first established during the Byzantine period. The most widely accepted theories regarding the origin of the city's name are either from the Vlach word *Carpen,* meaning "anchovy," *Carpen-isu* meaning "place of many anchovies," or from the Turkish word *kar-beniş*, meaning "snow-covered."

Evrytania is home to many historical and religious monuments and sites that record events over the centuries. Archaeological findings support Thucydides' account of intense military activity in Dolopia, a region located in the northeastern part of Evrytania, during the 5th century BCE. In the later Roman and Byzantine periods, the area continued to be known, particularly for the battle of the inhabitants of the Aetolian League with the Gauls at the site of Kokkalia Krikellou in 279 BCE.

The Bell Tower of Proussos Monastery

Velouchi Ski Center



Part of the Panta-Vrechi Gorge

DEPARTMENT PROFILE

AGRICULTURAL UNIVERSITY OF ATHENS

The Agricultural University of Athens is the third oldest university institution in Greece, after the National and Kapodistrian University of Athens and the National Technical University of Athens. It was established by Law 1844/1920 (Government Gazette 17 A'/22.01.1920) as an autonomous Higher Educational Institution under the name of the Higher Agricultural School of Athens (HASA). HASA later evolved into the Agricultural University of Athens, consisting of seven independent Academic Departments, according to Presidential Decree 377/1989 (Government Gazette 16 A'/16-6-1989). Subsequently, by Presidential Decree 226/1995 (Government Gazette 130 A'/20.06.1995), it was renamed the Agricultural University of Athens.

As stated in Article 1 of the Internal Regulations of the Agricultural University of Athens:

"The AUA provides agricultural education at undergraduate and postgraduate levels, covering all areas of agricultural activity. Its educational programs combine theoretical teaching with laboratory training and practical exercises, stem from research experience, and are related to the problems and prospects of Greek agriculture. They aim to make the graduates of the Institution capable of fulfilling the role of the Agronomist, who is both a teacher and supporter of the farmer and a planner of the country's agricultural development, while contributing through research to solving rural problems and managing natural resources rationally for agricultural production. Within the framework of the AUA, basic and applied research is conducted, aiming at the advancement of agricultural science and the development of an autonomous Greek agriculture, to the benefit of the rural population and, more broadly, the Greek people."

DEPARTMENT OF FORESTRY AND NATURAL ENVIRONMENT MANAGEMENT

The Department of Forestry and Natural Environment Management in Karpenissi belongs to the School of Plant Sciences and was established in 2019. The Department is housed on a privately owned site within the city, covering an area of 8,405 m², with unified building facilities of 3,870 m² that include educational spaces, student housing, and a dining hall.

The mission of the Department is to promote research and the production of new knowledge in the scientific fields of Forestry and Natural Environment Management, and to provide students with a high level of education aimed at their professional success and their scientific development, and their prospects.

Entrance to the Department of Forestry & Natural Environment Management, Agricultural University of Athens

DEPARTMENT STAFF

A. Professors:

1. **Andreas Papadopoulos**
   Forester (Aristotle University of Thessaloniki, Greece) / Ph.D. Ecology – Dendroclimatology (University Aix–Marseille, France) / D.E.A. Mediterranean Ecosystems (University Aix–Marseille, France)
2. **Anastasia Pantera**
   Forester (Aristotle University of Thessaloniki) / Ph.D. Forestry and Natural Environment Management (Aristotle University of Thessaloniki) / M.Sc. Forest Soil Science and Ecology (Purdue University, USA)

B. Associate Professors:

1. **Georgios Fotiadis**
   Forester (Aristotle University of Thessaloniki) / Ph.D. Forestry and Natural Environment Management (Aristotle University of Thessaloniki) / M.Sc. Bioecology (Aristotle University of Thessaloniki)

C. Assistant Professors:

1. **Stavroula Galanopoulou**
   Geologist (University of Patras) / Ph.D. Geology (National Technical University of Athens) / D.E.A. Environmental Geosciences (University Aix–Marseille, France)
2. **Dimitrios Zianis**
   Forester (Technological Educational Institute of Kavala) / Ph.D. Forest Ecology and Management (University of Edinburgh) / M.Sc. Forest Management (University of Aberdeen, Scotland)
3. **Dimitrios Koutsianitis**
   Forester (Aristotle University of Thessaloniki) / Ph.D. Forestry and Natural Environment Management (Aristotle University of Thessaloniki) / M.Sc. Harvesting and Technology of Forest Products (Aristotle University of Thessaloniki)
4. **Dimitra Lazaridou**
   Forester (Aristotle University of Thessaloniki) / Ph.D. Forestry and Natural Environment Management (Aristotle University of Thessaloniki) / M.Sc. Ecological Quality and Water Management at the Watershed Level (Aristotle University of Thessaloniki)
5. **Palaeologos Palaeologou**
   Geographer (University of the Aegean) / Ph.D. Geography (University of the Aegean) / M.Sc. Applied Geoinformatics (University of the Aegean)

6. **Athanasios Stampoulidis**

   Forester (Democritus University of Thrace) / Ph.D. Forestry & Environmental and Natural Resources Management (Democritus University of Thrace) / M.Sc. Sustainable

7. **Stergios Tabekis**

   Forester (Aristotle University of Thessaloniki) / Ph.D. Forestry and Natural Environment Management (Aristotle University of Thessaloniki) / M.Sc. Wood Technology (Aristotle University of Thessaloniki)

D. Lecturers of Applications:

1. **Efstratios Aidinidis**
   Forester (Aristotle University of Thessaloniki) / M.Sc. Wood Technology (Aristotle University of Thessaloniki)

E. Special Technical Laboratory Staff (E.T.E.P.):

1. **Eleni Gatsiou**

   E.T.P., Forester Specialty / M.Sc. Ecology and Environmental Management (Agricultural University of Athens)

2. **Athanasia Tsouka**

   E.T.P., Forester Specialty / M.Sc. Ecology and Environmental Management (Agricultural University of Athens)

3. **Nikolaos Gorogias**

   E.T.P., Forester Specialty / M.Sc. Ecology and Environmental Management (Agricultural University of Athens)

F. Retired Faculty Teaching at the Department:

1. **Spyridon Kaloudis**
   Forester (Aristotle University of Thessaloniki) / Ph.D. Forest Ecosystem Management (Agricultural University of Athens) / M.Sc. Environmental Science (National and Kapodistrian University of Athens)

G. Adjunct Instructors:

1. **Lampros Tsounis**
   Environmental Scientist (University of the Aegean) / Ph.D. Ichthyology (University of Patras) / M.Sc. Applications in Environmental Protection and Management (University of Patras)
2. **Eleni Bakogianni**
   Graduated in English Language and Literature (National and Kapodistrian University of Athens) / M.Sc. English for Specific Purposes (Aston University, UK)

H. Administrative Staff:

1. **Kassiani Skeptari**
   T.E., Administrative Accounting, Deputy Head of the Department Secretariat

I. Support Staff:

1. **Stylianos Maroulis**
   Contracted Project Staff

DEPARTMENT COMMITTEES AND TEAMS

The following committees operate within the Department of Forestry & Natural Environment Management:

1. Undergraduate Program Committee
2. Housing and Catering Committee
3. Practical Training Committee
4. Committee for Updating the Registers of Internal and External Department Members
5. Committee for Evaluating Course Recognition/Exemption Requests
6. Committee for Procurement, Evaluation, Monitoring, Acceptance of Services & Supplies, and Management of Consumable and Non-consumable Materials

The following teams operate within the Department:

1. Internal Evaluation Team (I.E.T.)

The Department has appointed coordinators and deputies for:
a) The Equal Access Unit for students with disabilities and special educational needs at the Agricultural University of Athens (AUA)
b) Practical Training
c) The Department Website
d) Keeping the Department's statistical records

Functioning of the Department

UNDERGRADUATE STUDENT ENROLLMENT

The enrollment process for students admitted to the Department of Forestry & Natural Environment Management is carried out in accordance with the annual circulars issued by the Ministry of Education, Research, and Religious Affairs regarding admissions, transfers, placement exams, and special categories. Students complete their registration electronically and then receive the details of their university account, which grants them membership in the university community of the Agricultural University of Athens (AUA).

Once the university account is activated, students gain access to the following electronic services (links are announced on the Department website and listed in this Study Guide):

- Submission of an application for an academic ID, which also functions as a "student pass," via the Electronic Academic ID Service: https://academicid.minedu.gov.gr/
- Submission of an application for free student meals: https://estudent.aua.gr
- Course registration and grade tracking through the AUA Electronic Secretariat online platform: https://estudent.aua.gr
- Selection of textbooks for registered courses via the Integrated Book Management Service "Eudoxus": https://eudoxus.gr/
- Access and management of their university e-mail account: http://webmail.aua.gr/

- Access to course pages through the AUA Open eClass platform (Electronic Course Management System): https://oeclass.aua.gr/eclass/
- Access to scientific websites and electronic libraries for finding textbooks, articles, and research papers.

The Department website (https://w1.aua.gr/dasologia/) serves as an information and guidance tool for Department activities and important student matters such as submission deadlines, exam schedules, timetables, assignment deadlines, lecture topics, and more.

SEMESTER REGISTRATION – REGISTRATION RENEWAL – COURSE ENROLLMENT

At the beginning of each semester and within a specified deadline (September/October for the fall semester and January/February for the spring semester, as announced each year by AUA), students register for the semester and declare the courses and laboratories they will attend.

Submitting the course declaration each semester is mandatory. The competent AUA authorities announce exact submission dates, which must be strictly followed. Late declarations are not accepted. Registration and course enrollment are carried out electronically via the platform: https://estud.aua.gr:8443/estudent/.

By submitting the declaration, the student gains the right to participate in the educational activities of the declared courses and to receive the corresponding textbooks. If a student fails to submit the semester course declaration, they are not entitled to receive teaching materials, attend courses, or participate in exams for that semester.

COURSE ENROLLMENT GUIDELINES

When registering for courses, students must take the following into account:

- In the **first semester**, only first-semester courses may be declared.
- In the **second semester**, only second-semester courses may be declared.
- In the **other fall semesters** (third, fifth, seventh, and ninth), students are required to declare and attend the courses of their standard semester and may additionally declare and attend laboratories from previous fall semesters that they have not yet completed.
- In the **other spring semesters** (fourth, sixth, and eighth), students are required to declare and attend the courses of their standard semester and may additionally declare and attend laboratories from previous spring semesters that they have not yet completed.
- **Graduating students** (tenth semester and above) must renew their enrollment and declare any laboratories from previous fall or spring semesters that they have not completed during their standard semester.

SEMESTER EXAM REGISTRATION

There are three examination periods: January, June, and September.

Students are entitled to take exams only after registering for them through the Secretariat's electronic system: https://estud.aua.gr:8443/estudent/, within the deadlines announced by AUA before the start of each exam period. Deadlines must be strictly observed. Late registrations are not accepted.

When registering for exams, the following rules apply:

- Students from the **third to the ninth semester** may register for exams in any outstanding courses (lectures and laboratories) from previous spring or fall semesters, provided they have attended them.
- **Graduating students** may register for exams in all courses from previous fall and spring semesters, provided they have attended them.
- Students who have already received a grade of **5.0 or higher** in a course are not allowed to register for it again.
- Students who have exceeded the maximum allowed period of study, including any authorized extensions, may, within **10 days from the announcement of the results of the last exam period**, submit a request for an **extraordinary exam** for up to **2 pending courses** required for graduation.

SUSPENSION OF STUDIES

Students have the right to suspend their studies for up to **four (4) semesters**, either consecutively or separately, by submitting a relevant application to the Secretariat and returning their academic ID. The application (available at https://www2.aua.gr/el/info/aitiseis) must be submitted to the Secretariat no later than ten (10) days after the start of the semester, provided that the student has already registered for that semester.

During the suspension period, the student loses their student status, has no right to participate in examinations, and the suspension period is not counted toward the total duration of study. At the end of

the suspension period, studies resume from the semester that was suspended, following a new application submitted by the student.

RECOGNITION OF COURSES DUE TO TRANSFER OR PLACEMENT

The recognition of courses from a transfer or placement from other Schools or Departments is carried out following an application by the interested students and a decision by the Department Assembly. Courses recognized as completed are those in which transferring or placed students have passed at the School or Department from which they come, provided that these courses belong to the same or a similar field of study as the courses offered by the Department of Forestry and Natural Environment.

Placed students are exempted from taking exams (theoretical part) for the courses they were assessed in for their placement, provided that these courses correspond to courses in the Department's Curriculum. Otherwise, the provisions of current legislation and the corresponding decisions of the collective bodies of the Higher Education Institution (HEI), or of the School or Department receiving the transferring or placed student, shall apply.

The duration of study also includes the time spent participating in an international or European educational program offered by an HEI, and the corresponding grades are also counted. These grades are converted to the grading scale used in the Department of Forestry and Natural Environment, in accordance with the relevant educational agreement and the transcript of records certificate required by the provisions of Ministerial Decision F5/89656/B3/2007 of the Minister of National Education and Religious Affairs, "Implementation of the system of transfer and accumulation of credit units."

Grades for courses taken at foreign HEIs must be verified by an original official document from the foreign HEI, which includes the relevant certification provided for under applicable international agreements. Otherwise, the provisions of the aforementioned ministerial decision shall apply.

WITHDRAWAL

Students have the right to withdraw from the Department after submitting a written solemn declaration to the Secretariat. The required documents for withdrawal are the following:
— Application form – Solemn Declaration for removal from the HUA (Agricultural University of Athens) student registry (https://www2.aua.gr/el/info/aitiseis)
— The Academic Identity Card must be submitted to the Secretariat (in person or by post).

Students are also removed from the Department upon reaching the maximum duration of studies and failing to meet the conditions for an extension as provided for in Article 76 of Law 4957/2022 (Government Gazette A΄141), as in force following its amendment by Law 5224/2025.

CONFERRAL

Students complete their studies and are awarded their degree upon completing the prescribed duration of studies, successfully passing the courses required by the curriculum, and accumulating the required number of ECTS credits.

The degree grade is calculated to two (2) decimal places of the integer unit and results from the following

(Course Grade 1 × ECTS of Course 1) + (Course Grade 2 × ECTS of Course 2) + … + (Thesis Grade × ECTS of the Thesis) divided by the Total Number of ECTS*

It is clarified that, in the above formula, the total number of ECTS does not include the ECTS credits of the Internship and the English language courses, as these are not graded with a numerical mark.

Student performance is classified into three grading scales:

- **Excellent** (grade 8.5–10)
- **Very Good** (grade 6.5–8.49)
- **Good** (grade 5–6.49)

COURSE TEXTBOOKS

Course textbooks for each semester are provided free of charge. Each student is entitled to receive textbooks for the courses of the current semester that they have included in their semester course registration, and in any case, in accordance with the regulations in force regarding textbook distribution.

Textbook selection is carried out electronically through the *Eudoxus* platform (www.eudoxos.gr), following a relevant announcement by the Ministry of Education and Religious Affairs, which is posted on the Department's website (https://w1.aua.gr/dasologia/) at the beginning of each semester.

Students who have exceeded the standard duration of studies by more than *n + 3* years are not entitled to receive textbooks.

ERASMUS+ PROGRAMME

Each student has the right to participate in mobility for studies and/or traineeship within the framework of the **ERASMUS+ Programme**, which is the European Commission's programme for education, training, youth, and sport. The programme aims to enhance skills and employability, as well as to modernise education, training, and youth systems across all sectors of Lifelong Learning (Higher Education, Vocational Education and Training, Adult Education, School Education, youth activities, etc.).

Further information about the ERASMUS+ Programme and other mobility programmes is provided in detail in the Department's Student Mobility Regulations. Relevant information, current calls, participation requirements, applications, etc., are published on the dedicated website of the Agricultural University of Athens (http://www.european.aua.gr).

RIGHTS AND OBLIGATIONS OF STUDENTS

Students of the Department:

- Have the right to cooperate with the teaching staff of the Department for their educational and examination needs, on the days and at the times announced by each faculty member at the beginning of each semester.

- Have the right to submit questions and applications to the Department Secretariat, which will be answered within a reasonable period of time.
- Are required to monitor and verify the accuracy of their recorded personal data and course registrations in their file in the electronic Secretariat system.
- Are responsible for regularly checking the electronic account (e-mail) provided to them by the University, so that they can receive information from the Secretariat or teaching staff, as well as for following the informational websites of the Agricultural University of Athens and the Department.
- Are obliged to comply with the Code of Ethics of the Agricultural University of Athens and the Study Regulations.
- Participate actively, through their lawfully appointed representatives, in the administrative activities of the collective bodies, contributing to the organisation and operation of the administrative and educational processes of the Department, the School, and the Agricultural University of Athens in general.
- The allocation of classrooms for student events is carried out by the Head of the Department, with timely notification of the instructor who uses the specific classroom. The classrooms provided must be returned, after use, in the condition in which they were received.

SECRETARIAL SUPPORT

The Department Secretariat maintains both hard-copy and electronic records. From the time of each student's enrolment, the Secretariat creates an individual file, which includes all changes in the student's status. After the completion of studies, the file is archived and retained permanently. Students and graduates of the Department may conduct transactions with the Secretariat in person or through an authorised representative, on working days and during the hours specified and announced through a relevant notice. They may also submit their requests via an electronic application or by e-mail. The contact details of the Department Secretariat are available on the Department's website.

ISSUANCE OF CERTIFICATES

Each student may obtain electronically, through the electronic Secretariat system (https://estud.aua.gr:8443/estudent/), certificates such as:

- Certificate of Student Status
- Official Transcript of Records
- Certificate for Military Use
- Thesis Assignment Certificate (No. 22)
- Thesis Examination Certificate (No. 10)

For certificates and attestations that are not available electronically, as well as for various applications (e.g. suspension of studies, withdrawal, etc.), the student may find the relevant application form on the Department's website (https://w1.aua.gr/dasologia/) or on the University's website (https://www2.aua.gr/el/info/aitiseis). After completing the form, it should be submitted to the Department Secretariat.

DEPARTMENT WEBSITE

The Department's website (https://w1.aua.gr/dasologia/) serves as an information and communication tool for the Department's activities and for important student-related matters, such as course registration deadlines, examination schedules, class timetables, assignment submission dates, lecture dates and topics, etc.

Students are required to visit the Department's website regularly and stay informed about matters that concern them.

COURSE PLANNING AND STRUCTURE

COURSE CATEGORIES

The total number of courses offered in the Study Programme is 79. Concerning course type, of the total number of courses provided by the curriculum:

- 46 are **Compulsory (C)**,
- 29 are **Compulsory Elective (CE)**, and
- 4 courses (English language courses) are **compulsory under certain conditions** (mandatory for students who do not hold a recognised English language qualification of at least level B2).

Specifically, the English language is taught in the Department as a compulsory course during the first four (4) semesters. According to decisions of the Senate of the Agricultural University of Athens (152/28-05-92 and 166/13-07-93), holders of English language proficiency certificates of at least level B2 of the Common European Framework of Reference for Languages of the Council of Europe are exempted from the English language course. The Rector's Council of the Agricultural University of Athens (meeting of 13-09-94) decided that the conventional numerical grading scale should not be used for the English language course, but instead the assessment "Satisfactory" / "Unsatisfactory". A prerequisite for the award of the degree to students who have not been exempted from the foreign language requirement is the successful completion of the examinations in all four semesters of the course.

The total number of ECTS credits required for the Undergraduate Study Programme of the Department is 300, distributed as follows:

- 260 ECTS corresponds to 55 courses (46 Compulsory and 9 Compulsory Elective),
- 30 ECTS corresponds to the **Bachelor's Thesis**, which meets the requirements of a postgraduate-level dissertation and has a minimum duration of one (1) academic semester. The Bachelor's Thesis is examined and graded by a three-member committee, including the supervising professor, with a maximum grade of 10 and a minimum passing grade of 5, and
- 10 ECTS corresponds to the **Internship**, which is carried out in companies or organisations related to the field of Forestry and the Natural Environment, has a total duration of two (2) months, usually takes place in July and August during the 8th semester of studies, and is not graded.

BACHELOR'S THESIS

For the award of the Department's degree, the completion of a Bachelor's Thesis (BT) is required. The number of available Bachelor's Theses and their topics are determined by the faculty members. Each faculty member may supervise up to five (5) Bachelor's Theses per semester. If the number of required theses exceeds the number of faculty members, then more than five (5) Bachelor's Theses may be assigned to a faculty member.

The planning and implementation of the Bachelor's Thesis are carried out under the responsibility of the supervising professor in collaboration with the student. The objective of the Bachelor's Thesis is, on the one hand, to introduce the student to the research process and, on the other hand, to foster the development of research activities by investing in the Department's human resources. The student may choose the scientific field in which they wish to conduct their Bachelor's Thesis, in cooperation with the Department's faculty members.

The Bachelor's Thesis is completed with the writing of the study and its public defence before a three-member Examination Committee, which also constitutes its final evaluation. It constitutes the final stage of the undergraduate studies. It is a compulsory requirement for the award of the degree. The Bachelor's Thesis forms part of the total credit requirements of the study programme with **30 ECTS** and is graded on a scale with a maximum of **10** and a minimum passing grade of **5**.

The Bachelor's Thesis is presented and evaluated on a date determined by the Examination Committee. The procedure for the preparation of the Bachelor's Thesis is described in detail in the **Regulations for the Preparation of Bachelor's Theses**.

INTERNSHIP

The Internship (PA) is a mandatory prerequisite for the award of the Degree. The Internship has a duration of two (2) months, is not graded, but is worth ten (10) ECTS credits.

The purpose of the Internship is to give students of the Department the opportunity for an initial contact with the realities of the labor market, while at the same time enabling the Department to connect with companies and private professionals in the field. Through the Internship, students broaden their professional prospects in areas related to their studies and acquire the necessary flexibility required by new social, economic, and political conditions.

Students, through the Student Information System (https://estud.aua.gr:8443/estudent/), declare—on specific dates announced by the Agricultural University of Athens (AUA)—the host organization with which they wish to collaborate for the completion of their Internship. The Internship is usually carried out during the summer months (July and August) of the 8th semester of studies. Special provisions apply for carrying out the Internship at a time other than the predetermined one, as well as for students who are permanently employed or employed under open-ended contracts in public sector bodies or the wider public sector, in positions related to the field of study of the Department of Forestry and Natural Environment Management.

The Internship may be carried out in private or public organizations, in laboratories of the AUA as well as of other research institutions, provided that it is supervised by a Geotechnical scientist or a professional of another specialty approved by the Department. The implementation of the Internship is monitored by the appointed supervisors, who are faculty members of the Department, and who communicate with the "employers" to assess both the consistency and the student's responsiveness to the assigned duties.

UNDERGRADUATE STUDIES PROGRAM

The Undergraduate Studies Program of the Department is prepared by the Department Assembly and is evaluated/updated in accordance with the applicable legislation and the decisions of the AUA, so as to be aligned with and adapted to current scientific/research developments and professional requirements, and is approved by the Senate. The Department has established a course distribution program across the ten (10) semesters of the duration of studies (Table 1).

Each student has the opportunity to shape their individual Study Program based on the courses they declare at the beginning of each semester. Courses (mandatory or compulsory elective) are attended only by students of the corresponding semester or of higher semesters. Students in a lower semester than the one in which a course is included in the Study Program are not permitted to attend that course.

At the beginning of the semester, instructors are required to announce the teaching schedule, which includes the weekly course content for the 13 weeks of instruction. Changes to the teaching schedule are possible only in exceptional cases.

ACADEMIC YEAR

The academic year begins on September 1 of each year and ends on August 31 of the following year. It is divided into two semesters, according to the schedule approved by the Senate of the Agricultural University of Athens (AUA), which may be amended by a subsequent decision. Each semester includes at least thirteen (13) weeks of teaching and three (3) weeks of examinations, in accordance with the decisions of the AUA.

The winter semester begins in the second half of September or the first half of October, while the spring semester begins after the completion of the winter semester examinations and ends in the first half of June, or as otherwise determined and decided by the competent bodies of the AUA. The exact dates are determined annually by the Senate of the AUA.

Classes and examinations are suspended on the following dates:

1. **Winter semester:** October 28, November 17, during the Christmas holidays, and January 30 (Feast of Letters – Three Hierarchs).
2. **Spring semester:** Clean Monday, March 25, during the Easter holidays, which begin on Holy Monday and end on Thomas Sunday, May 1 (Labor Day), the Feast of the Holy Spirit, and the day of the rectoral and student elections.
3. **September 23:** “St. Nicholas of Karpenissiou,” a local holiday of the city of Karpenissi.

Interruption of the educational activities and the general operation of the Department or the University, beyond those provided by law, is possible only by decision of the Senate and only in exceptional cases.

The detailed course schedule is announced on the Department’s website.

EXAMINATIONS

Examinations are conducted exclusively after the completion of the winter and spring semesters for the courses taught in those semesters, respectively. Students may be examined in courses from both semesters during the September examination period. There are three examination periods: (1) January, (2) June, and (3) the resit examination period of September, each lasting at least three (3) weeks.

The exact examination dates, their duration, as well as any subsequent modifications for serious reasons, are decided by the Senate of the Agricultural University of Athens (AUA) and are announced on the Department’s website. Students who are beyond the 10th semester of study have the right, in all examination periods, to be examined in all courses they have not yet passed, provided that they have declared and attended them as stipulated.

Assessment and grading in each course are the exclusive responsibility of the instructor. The evaluation criteria are clearly defined and are stated in the course information sheet (Course Outline). The final grade for each course results from the overall performance of students in specific components (e.g., assignments, examinations), in accordance with the instructions provided by the instructor at the beginning of the semester.

If a student fails a course more than three times, they may submit a request to the Head of the Department to be examined by a three-member committee of faculty members of the School, who have the same or a related field of expertise and are appointed in accordance with the applicable legislation. The instructor responsible for the examination is excluded from this committee.

The final grade for each course is calculated as the average of the student's performance in the theoretical and laboratory components of the course. Grades are awarded on a scale from 0 to 10. A grade of five (5) constitutes a passing mark; a grade below five (5) is considered a failure.

If a student has completed more courses than required for the award of the degree, only the courses selected by the student through a formal declaration will be included in the calculation of the degree grade.

REGULATIONS FOR THE CONDUCT OF EXAMINATIONS & THE HANDLING OF PLAGIARISM ISSUES

The Department of Forestry and Natural Environment Management recognizes that acts of cheating and plagiarism by students are unacceptable and have no place at the Agricultural University of Athens (AUA). Practices of plagiarism and cheating constitute deception and are contrary to the principle of equal treatment of students. Plagiarism is defined as the use of the ideas and words of others. Any failure to acknowledge sources, even if unintentional, is considered plagiarism. Plagiarism is never acceptable in the academic community.

Cheating is defined as any attempt to use, during an examination, mobile phones, computers, devices for transmitting sound or data, books, notebooks, or notes. Cheating also includes attempts to copy from another examinee's written work, collaboration in such acts, or failure to comply with the instructions of invigilators.

Students of the Department are required to fulfill their academic obligations in accordance with the criteria set by the instructors, the Department, the School, and the AUA. Cheating and plagiarism constitute fraudulent misrepresentation and deception. In cases where students commit such offenses, the Department will impose the appropriate sanctions.

If a student is expelled from the examination room by an invigilator or examiner for committing an academic offense, or refuses to comply with the instructions of the invigilator or examiner during examinations, they will face the sanctions described in the relevant legislation. The same penalty applies in cases of proven plagiarism in academic assignments, as determined by the instructor.

The competent disciplinary body for undergraduate and postgraduate students, in accordance with Article 199 of Law 4957/2022, as amended by Article 73 of Law 5254/2025, may impose escalating penalties on the student, as provided for in Article 198 of the same law, as amended by Article 70 of Law 5254/2025.

In general, with regard to student disciplinary law, the provisions set out in Chapter ΚΒ΄ of Law 4957/2022 apply, as in force following the amendments introduced by Law 5254/2025.

COURSE CONTENTS

1st SEMESTER

COMPULSORY COURSES

4111. Wildlife Biology
Overview of the morphology, anatomy, and physiology of mammals, birds, freshwater fish, amphibians, and reptiles. Emphasis on the distribution, habitats, reproduction, feeding habits, and behavior of species found in Greece, particularly mammals and birds. Laboratory work focuses on species identification, especially those of economic importance to humans.

4112. Plant Morphology and Physiology
Fundamentals of plant cells, tissues, and organs; leaf, stem, and root structure and growth; reproductive organs, pollination, fertilization, and fruit types. Core aspects of plant physiology, including seed germination, water relations and transport, transpiration, mineral nutrition, photosynthesis (C3, C4, CAM), nitrogen assimilation, and respiration.

4113. Meteorology and Climatology
Basic principles of meteorology and climatology, including atmospheric structure, solar radiation, air and soil temperature, pressure systems, winds and air masses, atmospheric moisture and precipitation, and other weather phenomena. Climate classification and types, meteorological stations and instruments, and analysis and presentation of climatic and bioclimatic data and indices.

4114. Geology, Mineralogy, and Petrology
Structure and composition of the Earth, geological time and cycles, and internal and external geological processes. Crystallography, mineral properties and classification, and practical mineral identification. Formation, properties, and classification of igneous, sedimentary, and metamorphic rocks, with practical rock identification, use of the polarizing microscope, geological mapping, cross-sections, and an introduction to the geology of Greece.

4115. Mathematics
Introduction to functions and graphs, roots, monotonicity, extrema, and limits; differential and integral calculus. Fundamentals of linear algebra, including matrices, matrix operations and inversion, systems of equations, determinants, vectors and vector operations, and elements of analytic geometry.

4118. Computer Science
Principles of data representation, storage, and processing in computer systems, and core computing applications. Overview of computer hardware and software, algorithms and programming languages, databases, artificial intelligence, information systems and decision support systems, computer networks and internet technologies, multimedia web applications, computer security, and recent technological developments.

2nd SEMESTER

COMPULSORY COURSES

4211. Biometry
Collection, presentation, and statistical analysis of data, including measures of central tendency,

dispersion, and shape. Fundamentals of probability and theoretical distributions, parameter estimation, hypothesis testing, analysis of variance, correlation and simple linear regression, and non-parametric tests.

4212. Forest Botany (Systematics)
Principles of plant taxonomy and classification systems, plant characteristics and descriptions, floral diagrams and formulas, and diagnostic features of major plant families in Greek forest ecosystems. Practical identification at the family level using keys and stereomicroscopes.

4213. Forest Soil Science
Introduction to forest soils, their formation, mineralogical composition, and physical, chemical, and biological properties. Soil water relations, nutrient cycles, soil fertility, classification, and the role of forest soils in ecosystem processes and the hydrological cycle.

4215. Hydrology
Fundamentals of hydrology, the hydrological cycle and water balance, surface and groundwater processes, runoff analysis, hydrological measurements and modeling, flood estimation, and statistical analysis of hydrological and hydrometeorological data, with emphasis on forest–water interactions.

4218. Environmental Chemistry and Pollution
Basic principles of environmental chemistry, geochemical cycles, sources and impacts of pollutants in air, water, and soil, including atmospheric, aquatic, and soil pollution. Study of major pollutants, waste management, and environmental protection measures.

4219. Technical Drawing and Computer-Aided Design
Two-dimensional computer-aided drafting using AutoCAD and ArcGIS, including drawing tools, layers, text, dimensions, coordinate systems, and measurement units. Introduction to GIS concepts, spatial data models, digitization, and map creation and cartography.

REQUIRED ELECTIVE COURSES

4322. Freshwater Aquaculture
Physical and chemical properties of inland waters; fish morphology, anatomy, and basic physiology; zoogeographical distribution and migrations; ichthyological zones of running waters; fishery biology and population dynamics; reproduction, age and growth, length–weight relationships, condition factor, feeding ecology, stock assessment methods, and management of inland fisheries (rivers, lakes, and coastal lagoons).

4722. Statistical Applications Using Computers
Data entry and management, descriptive statistics and graphical analysis, simple and multiple linear regression, one- and two-way analysis of variance, non-parametric tests, and applied statistical analysis using computer software.

4723. Scientific Literacy in the Natural Sciences
Learning theories in the natural sciences, socio-cultural approaches to science and environmental education, conceptual frameworks of environment, ecology, and environmental issues, interdisciplinary perspectives, educational goals of sustainability, and teaching approaches and instructional tools.

3rd SEMESTER

COMPULSORY COURSES

4311. Forest Mensuration
Principles of measurement applied to trees and forest stands, including length, diameter, basal area, and volume. Methods for measuring standing and felled trees, stand measurements, age and growth estimation, sampling techniques, and the use of forest instruments, with field applications in local forest ecosystems.

4312. Environmental Geographic Information Systems (GIS)
Introduction to GIS concepts and environmental applications, spatial data models and geodatabases, digital mapping and map projections, spatial analysis processes, data digitization and error correction, system organization, and cartographic visualization of environmental information.

4313. Forest Botany (Trees and Shrubs)
Morphological characteristics, biological requirements, and geographic distribution of forest trees and shrubs of Greece, as well as important exotic forest species. Species and subspecies identification using keys and stereomicroscopes, and field identification in natural environments.

4314. Forest Products Harvesting
Planning and organization of timber harvesting and the collection of resin and other forest products; harvesting methods, tools, machinery, and transport systems; conditions specific to Greek forests; economic and labor aspects of harvesting operations; safety and workforce organization; processing, classification, and distribution of forest products; and environmental considerations, with field demonstrations in local forest stands.

4315. Topography
Fundamental principles of topography, measurement units and coordinate systems, distance, angle, and elevation measurements, leveling and surveying methods, area and volume calculations, and polygon traverses. Computer-aided surveying, map reading and interpretation, contour lines and slope analysis, field layout and surveying applications, preparation of topographic plans, and the use of GIS tools for spatial data management, digitization, map production, and thematic mapping for environmental applications.

REQUIRED ELECTIVE COURSES

4321. Forest Soil Fertility
Factors affecting soil fertility and plant growth, clay minerals and their role in fertility, assessment of soil fertility, plant nutrients and nutrition, soil fertility improvement through fertilization, and applications and impacts of fertilization in forestry.

4624. Native Aromatic and Medicinal Plants
Taxonomic classification of aromatic, medicinal, and melliferous plants of the Greek flora; their botanical and geobotanical characteristics, ecology and distribution, dynamics and history, and their practical and economic importance.

4821. Ecophysiology of Forest Species
Fundamental concepts of ecophysiology, adaptation and adaptive strategies, physiological mechanisms, and natural selection. Ecophysiology of forest trees, including water relations, productivity, photosynthesis, nitrogen metabolism, germination and senescence, responses to environmental stress, and tree performance under extreme conditions such as drought, flooding, salinity, and temperature extremes.

4th SEMESTER

COMPULSORY COURSES

4412. Wood Structure and Properties
Macroscopic and microscopic structure of wood, chemical composition and wood formation, variability and structural defects, and physical and mechanical properties including density, hygroscopic behavior, shrinkage and swelling, strength, and thermal, acoustic, and electrical properties. Wood degradation, natural durability, and identification of major wood species using macroscopic and microscopic techniques.

4413. Ecotourism and Forest Recreation
Concepts and forms of ecotourism and forest tourism at global and European levels, forest recreation resources and demand, landscape and visual resources, natural and cultural landscapes, recreational infrastructure and facilities, environmental education projects, and management of urban parks and recreational forests.

4415. Forest Botany (Geobotany)
Plant geography, endemic species, species distribution, history of forest vegetation, vegetation zones, principles of phytosociology, classification of forest vegetation and habitat types, and field sampling, analysis, and classification of vegetation units.

4417. Forest Economics and Valuation
Fundamental economic concepts applied to forestry, market structure, supply and demand of forest products, productivity and efficiency, micro- and macroeconomic analysis, forest production factors, marketing of forest products, environmental economics, and methods for the economic valuation of environmental goods and services.

4725. Forest Engineering Works and Constructions
Principles of forest engineering, earthworks and forest road construction, design and dimensioning of concrete, wooden, metal, and stone structures, small technical works, bridges and retaining structures, economic aspects of construction, outdoor and prefabricated structures, compatibility of forest engineering works with the natural environment, spatial planning, and GIS-based mapping and spatial data management.

REQUIRED ELECTIVE COURSES

4421. Climate Change and Forest Ecosystems
Concepts of climate change and climate variability, Earth's climatic history, causes and emission scenarios of greenhouse gases and their impacts on the global climate system, land-use change, and forest ecosystem dynamics. Impacts of climate change on forests, adaptation strategies, international climate agreements, the role of the IPCC, and national strategies and objectives for climate change adaptation.

4418. Natural Disasters
Definitions and causes of natural disasters, including natural and human-induced factors, types of disasters, and environmental risks at national and global scales, impacts, and management approaches. Overview of geophysical, hydrological, meteorological, climatological, and biological disasters, with case studies from Greece and the international context.

4419. Wood Identification
Macroscopic, physical, and microscopic characteristics are used to identify softwood and hardwood

species, including microscopic appearance and sample preparation techniques. Application of modern identification methods, such as biometric traceability, DNA analysis, and mass spectrometry, as well as wood identification software. Origin, uses, and market significance of major Greek commercial species and key tropical wood species.

5th SEMESTER

COMPULSORY COURSES

4511. Forest Ecology
Concepts and structure of forest ecosystems, forest types and distribution, autoecology and synecology, interactions between forests and environmental factors (light, temperature, water, air, soil), humus and mycorrhiza, growth ecology, reproduction and regeneration processes, biomass production, stability and resilience, species interactions, ecosystem dynamics, and forest succession.

4512. Forest Road Engineering
Principles of forest road planning and design, road classification and geometry, horizontal and vertical alignment, curves and gradients, cross-sections, earthworks, cost estimation, and field layout. Spatial planning of forest roads, environmental impact assessment, regulatory framework, and the use of GIS, spatial data models, digitization, and thematic mapping in road design and environmental applications.

4513. Forest Aerial Photography and Remote Sensing
Fundamentals of aerial photography and remote sensing, sensors and imaging systems, flight planning and photo geometry, photo interpretation and thematic mapping, orthophotos, satellite imagery and data, and applications of remote sensing and GIS in forestry and environmental analysis.

4514. Forest Pathology
Introduction to forest pathology, including the biology, morphology, and classification of major plant pathogens (fungi, bacteria, and viruses). Diseases of coniferous and broadleaf forest trees, nursery diseases and control methods, root diseases and wood rots, abiotic stress factors, and damage caused by pollution and adverse climatic conditions.

4712. Forest Genetics
Fundamental concepts of genetics, molecular basis of heredity and genome organization, gene structure and regulation, gamete formation, Mendelian and population genetics, genetic markers, quantitative genetics, and the role of genetic diversity and forest management in the productivity and sustainability of forest ecosystems.

REQUIRED ELECTIVE COURSES

4515. Protected Natural Areas
Concepts, definitions, and categories of protected areas, including biosphere reserves, national and regional parks, aesthetic forests, natural monuments, landscapes of outstanding natural beauty, wildlife refuges, and other high-nature-value areas. Legal frameworks at national, European, and international levels, management principles, values and challenges, restoration measures, governance structures, and selected case studies of participatory and adaptive management.

4521. Ecosystem Services
Fundamental concepts and definitions, historical background, links between ecology, biodiversity,

ecosystem resilience, and ecosystem services, methods for identifying and assessing ecosystem services, data and information sources, and applications in natural resource management.

4924. Restoration of Disturbed Areas
Introduction to ecosystem disturbance and restoration, ecological principles and the need for restoration, landscape and biodiversity restoration in disturbed environments, restoration of forests, wetlands, agricultural and urban ecosystems, and case studies and monitoring methods for evaluating restoration effectiveness.

6th SEMESTER

COMPULSORY COURSES

4611. Silviculture
Study of forest stands based on structure and composition, horizontal and vertical forest structure, stand development and regeneration, silvicultural systems and management forms, natural regeneration methods, conversion of coppice forests, forest tending practices, and structural analysis and silvicultural diagnosis of local forest stands.

4612. Ecology and Management of Grassland Ecosystems
Fundamentals of rangeland ecology, characteristics of grassland plants, structure and functioning of grassland ecosystems, types of grasslands, water relations, succession and equilibrium stages, grazing capacity and management, impacts of grazing and fire, ecological disturbances, protection and management planning of grassland ecosystems, and identification of grassland plant species.

4614. Forest Entomology
Basic concepts of entomology, insect morphology and taxonomy, insect ecology and population dynamics, interactions between insects and the environment, insect outbreaks, pest insects of coniferous and broadleaf trees, damage symptoms and control methods, insects of nurseries, soil and roots, predators, and insects affecting wood in use.

4615. Wood Technology
Description, properties, and production technology of wood and wood-based products, including raw materials, machinery, production stages, quality control, storage, and processing. Study of solid wood, sawn timber, veneers, plywood, glued laminated timber, particleboards, fiberboards, paper, and engineered wood products (OSB, LVL, PSL), their properties, uses, drying and preservation treatments, surface improvement processes, and comparative analysis of hygroscopic behavior and mechanical strength.

4616. Green Entrepreneurship and Innovation
Introduction to entrepreneurship and business development, business organization and management, modern forms of entrepreneurship (social enterprises, startups), green entrepreneurship and the green economy, business models and environmental protection, circular and bio-economy, business planning and strategy, innovation and product development, market analysis and marketing, financing mechanisms, environmental finance, corporate social responsibility, environmental performance, and environmental certification.

4617. Applied Geoinformatics
Advanced applications of geoinformatics in forestry and the natural environment, including soil and forest site mapping, network analysis, habitat mapping and analysis, hydrological analysis, and multi-criteria decision analysis, building upon foundational GIS knowledge.

REQUIRED ELECTIVE COURSES

4618. Wetland Ecology
Introduction to wetland ecosystems, their classification in inland, riparian, and coastal/brackish environments, major wetland regions worldwide and in the Mediterranean, ecology of aquatic and riparian species, species interactions and abiotic factors, biodiversity, ecological balance and risks, and the ecological functions and values of wetlands, particularly in biodiversity conservation, climate change mitigation, the water cycle, and human activities.

4619. Scientific Ethics
Principles and concepts of ethics and professional conduct, codes of ethics, interprofessional ethics education, moral reasoning and ethical literacy, communication and social norms, business and organizational ethics, ethics in scientific research, ethical decision-making, issues of anonymity, confidentiality, informed consent, conflicts of interest, and research misconduct.

4926. Regional Development
Key concepts of regional development, spatial planning and programming, theories of location and regional growth, regional and EU development policies, globalization and regional development, rural development, natural resources, development strategies, and the role of cooperatives in regional development.

7th SEMESTER

COMPULSORY COURSES

4711. Management of Natural Ecosystems
Principles of management science and operations research applied to terrestrial natural ecosystems, including problem-solving processes, quantitative and qualitative analysis methods, project scheduling, linear and dynamic programming, decision theory, simulations, and the organization and management of forest enterprises and production factors.

4713. Mountain Torrent Control I
Scope and history of mountain torrent control, classification and morphometric characteristics of torrential streams, flow processes, runoff and discharge measurement, sediment production and transport, channel equilibrium and changes, torrent dynamics and types, and an overview of torrent-related problems with emphasis on Greece.

4714. Urban Forestry
Concepts and principles of urban and peri-urban green spaces, urban ecological conditions, effects of trees and green infrastructure on urban environments, species selection, tree establishment and maintenance, management of urban forests and tree lines, and planning and implementation of urban forestry practices.

4613. Game Management and Wildlife Management
Philosophical, economic, and policy aspects of hunting and wildlife management, population ecology and dynamics, habitat management and improvement, predator control, hunting regulations and harvest systems, restocking methods, wildlife legislation, monitoring and capture techniques, and safety and hygiene in game management.

4913. Forest Fires
Forest fires in Greece and worldwide, fire ecology, causes and prevention, fire behavior and risk

assessment, suppression techniques and equipment, wildfire management strategies, protection of settlements, post-fire restoration, public awareness, safety, and coordination of firefighting resources.

REQUIRED ELECTIVE COURSES

4622. Mycology – Macromycetes
Introduction to fungi, morphology, anatomy, reproduction, physiology, and classification, with emphasis on macromycetes in forest and grassland ecosystems. Ecological and economic importance, conservation aspects, and an overview of mushroom species found in Greece.

4726. Wood Chemical Products
Chemical composition and analysis of wood, properties and reactions of cellulose, hemicelluloses, lignin, and extractives, and the chemical utilization of wood. Production technologies and applications of wood-based chemical products, including pulp, paper, cellulose derivatives, polymers, sugars, resins, energy products, and other value-added materials.

4727. Innovative Wood Products and Structures
Market-driven innovations in wood products, including lightweight panels with honeycomb structures, cross-laminated timber (CLT), carbon-fiber-reinforced wood beams, nanotechnology-based waterproofing, high-energy-efficiency wood materials, modified wood (Accoya), and thermally modified wood (Thermowood) for structural and outdoor applications.

4925. Landscape Architecture and Design of Natural Environments
Principles and contemporary trends in landscape architecture, analysis and management of natural landscapes, impacts of human activities, landscape restoration, protection of landscape diversity, ecotypes and technotypes, relationships between heterogeneity and ecological stability, and dynamic landscape management integrating cultural and natural elements.

8th SEMESTER

COMPULSORY COURSES

4811. Forest Ecosystem Management
Planning and management of terrestrial forest ecosystems, including timber-producing forests (high forests, coppice forests, and mixed systems). Spatial and temporal organization of forest resources, methods for estimating growing stock and allowable cut, and management of multi-purpose forests. Application of landscape ecology, operations research, remote sensing, and GIS in forest management, including recreational forests, resin-producing forests, protected and protective forests, and the preparation of forest management plans.

4812. Mountain Torrent Control II
Advanced principles of mountain torrent control, objectives and systems of regulation, and technical works such as dams and channel structures. Design, sizing, stability analysis, and risk management of dams, as well as complementary engineering, agricultural, and bioengineering works (afforestation, revegetation, erosion control). Preventive measures and stages in planning and implementing mountain torrent control projects.

4814. Forest Nurseries and Reforestation
Establishment and management of forest nurseries, including site selection, design, infrastructure,

equipment, and cost assessment. Seed collection, processing, and storage; soil and irrigation management; production of bare-root and containerized seedlings; vegetative propagation; fertilization; pest, disease, and weed control; quality control, packaging, and transport of seedlings. Artificial forest establishment (reforestation) and preparation of reforestation plans.

4815. Forest and Environmental Legislation
Basic legal concepts and principles, forest law and definitions, forest ownership and management, protection of forests and forest lands, forest engineering works, environmental protection policies of the European Union, international ecological conventions, hunting law, legal instruments and their interpretation, and compliance mechanisms between national and EU environmental legislation.

9th SEMESTER

COMPULSORY COURSES

4911. Research Methodology
Methods for literature search and review, research design and structure, participation in lectures by invited researchers on forestry and environmental topics, academic writing, oral and written presentation skills, and discussion and evaluation of student research work.

4912. Agroforestry
Introduction to agroforestry concepts, advantages and limitations, biological, economic, and social aspects, types and classification of agroforestry systems based on components, spatial arrangement, and temporal sequence, interactions among system components, special applications, and the role and prospects of agroforestry in Greece.

4914. Forest and Environmental Policy
Principles, institutions, and tools of forest and environmental policy at national, European, and international levels, including policy formulation and implementation, analysis of contemporary environmental issues, international agreements, climate, energy, and bioeconomy policies, decision-making mechanisms, and evaluation of environmental and forest protection measures.

4915. Dendrochronology and Dendroecology
Fundamental concepts and history of dendrochronology, principles and methods of tree-ring analysis, field and laboratory techniques, cross-dating and statistical analysis, applications in dendroecology, dendroclimatology, dendrohydrology, dendrogeomorphology, and the use of tree rings in environmental, ecological, and archaeological studies.

REQUIRED ELECTIVE COURSES

4523. Environmental Education
Core concepts of environment, nature, ecology, sustainability, and environmental issues; historical development of environmental education through international conferences; objectives, principles, institutional frameworks, and models of integration into modern educational systems; and the philosophical foundations of contemporary environmentalism and sustainable development.

4823. Urban Wildlife Management
Application of ecology and wildlife management principles in urban environments, including urban habitats for wildlife, factors influencing wildlife presence, and impacts such as disease, overpopulation, and invasive species, as well as strategies for managing and mitigating wildlife-related conflicts in cities.

4825. Bioengineering and Vegetative Engineering Works
Introduction and objectives of bioengineering works, selection of plant material and methods, improvement of site quality, vegetative techniques for erosion control, slope stabilization, drainage, torrent regulation, dune stabilization, and landscape and watershed management applications.

4826. Standardization and Certification of Forest Products
Principles and terminology of standardization, quality characteristics of wood and wood products, specifications and testing methods, quality assurance systems, certification bodies and standards (ISO 9000, ISO 14000, EMAS), ecolabels and CE marking, forest certification schemes.

4927. Management of Forest Organizations and Enterprises
Principles of organization and management, decision-making processes, administrative structures of forest organizations and enterprises, organizational systems, human resource management, production planning, challenges of forest industries, total quality management, and corporate social responsibility.

4929. Forest Biomass and Energy
Principles and methods for assessing and utilizing forest biomass for energy production, forest biomass as an energy resource, current energy needs and prospects, forest energy planning and models, production of wood fuels, charcoal, pellets, briquettes, and residues, and the advantages and limitations of forest biomass use, with emphasis on the situation in Greece.

4920. Environmental Ethics
Core concepts of bioethics and environmental ethics, interpretive approaches, anthropocentric, biocentric, and ecocentric perspectives, social ecology, traditional ethical theories, human–environment relationships, sustainability principles, intergenerational justice, quality of life, social cohesion, global responsibility, and the links between environmental and social issues.

4916. Wetland Management
Introduction to wetlands, their definitions and classification, ecological functions, threats and pressures, legal protection frameworks, riparian ecosystems, and management principles. Emphasis on watershed-scale management, wetland evaluation, mapping and monitoring, restoration and creation of wetlands, and the use of constructed wetlands for wastewater treatment.

4917. Natural Resource and Environmental Economics
Fundamental principles of natural resource and environmental economics, market failures, common-property resources and public goods, economic instruments for environmental protection, cost–benefit analysis, non-market valuation techniques, international environmental issues, and the economics of sustainable development.

4918. Environmental Studies
Principles and applications of Environmental Impact Assessment (EIA), project classification and evaluation, environmental licensing and decision-making processes, mitigation and monitoring measures, management plans for protected areas, ecological assessments, funding mechanisms, decision-support systems, and the use of GIS and spatial data in environmental planning and mapping.

10th SEMESTER

4101. Undergraduate Thesis

STUDENT WELFARE

At the Department of Forestry & Natural Environment Management, a range of student welfare provisions is offered, specified for students as follows:

- Free textbooks and teaching notes are provided, covering the above study programs and course outlines.
- The Department has a lending library with a substantial collection of Greek and foreign-language books and journals related to the fields of study. A study room is also available to meet students' study needs and for the use of personal computers, with internet access.
- A student residence hall with a capacity of 50 persons operates in a building adjacent to the Department. Students who do not reside in the residence hall may apply for a housing allowance.
- A fully equipped student cafeteria operates within the Department's facilities, providing free meals, where applicable, to eligible students.
- All students are entitled to student travel passes (academic ID). Discounts range from 25% to 50% for urban and intercity transportation.
- For working students, several accommodations are provided by their employer, such as the granting of special examination leave and unpaid leave. Similar provisions also apply to enlisted personnel and to students with special needs.

CONTACT INFORMATION

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