



ATHENS UNIVERSITY
OF ECONOMICS
AND BUSINESS



NATIONAL and
KAPODISTRIAN
UNIVERSITY of ATHENS



ΜΕΤΑΠΤΥΧΙΑΚΟ
ΑΝΑΛΥΤΙΚΗ του ΑΘΛΗΤΙΣΜΟΥ
MSc
SPORTS ANALYTICS



Study Guide

Inter-Institutional Interdepartmental Postgraduate Program in
«Sports Analytics»

Department of Statistics
Athens University of Economics and Business
&

Department of Physical Education and Sport Science
National and Kapodistrian University of Athens

Study Guide
Athens, Academic year **2026-27**

PART I: INFORMATION ABOUT THE INSTITUTION

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS (AUEB)

Address: 76, Patission Str. GR-10434, Athens

Telephone number: +30-210-8203911

Website: <https://www.aueb.gr>

e-mail: webmaster@aueb.gr

Facebook: <https://www.facebook.com/auebgreece>

Twitter: <https://twitter.com/aueb>

Linkedin: <https://www.linkedin.com/school/athens-university-of-economics-and-business/mycompany/>

Youtube: <https://www.youtube.com/channel/UCPncunqp3bMuAHHeCikhalg>

Instagram: <https://www.instagram.com/aueb.gr/>

ACADEMIC AUTHORITIES

The rectorate authorities consist of the Rector and the Vice Rectors, as per below:

Rector:

Professor Vasilios Vasdekis

Vice Rectors:

Vice Rector for Academic Affairs and Personnel

Professor Leonidas Doukakis

Vice Rector for Research and Lifelong Learning

Professor Georgia Siougle

Vice Rector for Financial Planning and Infrastructure

Associate Professor Eleanna Galanaki

Vice Rector for International Cooperation and Growth

Professor Nancy Pouloudi

School of Information Sciences and Technology

Dean: Professor Vasiliki Kalogeraki

Department of Statistics

Chair: Professor Stylianos Psarakis

Master's Program

Director: Professor Ioannis Ntzoufras

Contact details

Address: 47A Evelpidon & 33 Lefkados Street, Athens, 113 62, Greece

Telephone number: +30 210 82 03 681

e-mail: masterst@aueb.gr

Website: <https://aueb-analytics.wixsite.com/msc-stats/>

<https://www.dept.aueb.gr/el/stat/content/msc-sports-analytics>

Academic Year / Semester Dates

- 1st Trimester (Teaching Period): 5/10/2026 – 13/12/2026
- Christmas Holidays: 24/12/2026 – 6/1/2027
- Examination Period (1st Trimester): 14/12/2026 – 23/12/2026 & 7/1/2027 – 10/1/2027
- 2nd Trimester (Teaching Period): 11/1/2027 – 19/3/2027
- Examination Period (2nd Trimester): 22/3/2027 – 2/4/2027
- 3rd Trimester (Teaching Period): 5/4/2027 – 26/6/2027
- Easter Holidays: 26/4/2027 – 9/5/2027
- Examination Period (3rd Trimester): 28/6/2027 – 9/7/2027

Official Holidays (according to the academic calendar)

- October 28, 2026 – National Anniversary (Ohi Day)
- November 17, 2026 – Polytechnic Uprising Anniversary
- January 30, 2027 – Three Hierarchs Day
- March 15, 2027 – Clean Monday
- March 25, 2027 – National Anniversary
- May 1, 2027 – Labour Day (May Day)
- June 21, 2027 – Holy Spirit Day

AUEB's OPERATIONAL STRUCTURE

The structure and operation of the Institution is defined by current legislation as in force. The Athens University of Economics and Business is under the supervision of the Ministry of Education, Research and Religious Affairs. Its governing bodies include:

The Governing Council
The Senate
The Rector
The Vice-Rectors
The Executive Director

Until the Governing Council assumes its duties, administration is exercised by the University's Rector's Council

AUEB's ACADEMIC STRUCTURE

The Athens University of Economics and Business is structured by academic units of two (2) levels: a) the Schools, and b) the Departments

Each School is structured by at least two (2) Departments, covers a domain of related scientific areas, and ensures the interdisciplinary approach to teaching and research between its departments. The School is responsible for supervising and coordinating the operation of the Departments and the educational and research work produced, in accordance with the Internal Operating Regulations.

The bodies of the School, according to Law 4957/2022 (A 141) as applicable are: a) the Dean and b) the Dean's Council.

The Department is the University's fundamental academic unit and aims to advance a specific field of science, technology, letters and arts through education and research. The Department consists of all the members of the Teaching & Research Staff (DEP), the members of the Special Education Staff (EEP), the

members of the Laboratory Teaching Staff (EDIP) and the members of the Special Technical Laboratory Staff (ETEP).

Bodies of the Department according to Law 4957/2022 (A 141) as applicable are: a) the Assembly, b) the Board of Directors, c) the Head/Chair and d) the Deputy Head/Chair.

Athens University of Economics and Business consists of three Schools & eight Departments:

1. SCHOOL OF ECONOMIC SCIENCES

Department of International and European Economic Studies

Department of Economics.

2. SCHOOL OF BUSINESS

Department of Management Science and Technology

Department of Business Administration

Department of Accounting and Finance

Department of Marketing and Communication.

3. SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY

Department of Informatics

Department of Statistics

ADMINISTRATIVE BODIES OF POSTGRADUATE STUDY PROGRAMS

Competent bodies for the organization and operation of the Postgraduate Study Programs are:

- a) the Senate,
- b) the Assembly of the Department,
- c) the Coordinating Committee (CC), and
- d) the Director of the Postgraduate Program.

Especially for inter-departmental, inter-institutional and joint programs, the responsibilities of the Department's Assembly are exercised by the Curriculum Committee

UNIVERSITY STAFF

The University staff consists of the following categories:

- TEACHING STAFF:

- Teaching & Research Staff (DEP)
- Emeritus Professors
- Visiting Professors
- Special Education Staff (E.E.P.)
- Laboratory Teaching Staff (E.DI.P.)
- Special Technical Laboratory Staff (E.T.E.P.)
- Auxiliary Teaching Staff
- Teaching Fellows
- Scientific Faculty Members
- Adjunct Instructors
- Secondet Teachers

- ADMINISTRATIVE STAFF

SERVICES

The Athens University of Economics and Business provides both administrative and other services (meals, housing, library, sport facilities etc.) aiming at serving both its students and staff. More information on the organization and operation of the University's services can be found on the University's website (<http://www.aueb.gr/en>).

General description of the University

The Athens University of Economics and Business (AUEB), as a Higher Educational Institution, is a legal entity governed by public law and supervised by the Ministry of Education, Research and Religious Affairs.

AUEB is, in order of seniority, the third Higher Education Institution of the country and the first in the fields of Economics and Business Administration. Later, the scientific fields of Informatics and Statistics were added. Since its founding, in 1920, AUEB has a rich and noteworthy tradition of significant academic achievements that define the present and create excellent prospects for the future.

The University as a center of excellence, in academic research and teaching, is rated as one of the leading universities in its subject areas in Greece and one of the best internationally. The high level of its scientific staff, the quality in teaching and research, the modern curriculum/courses, but also the high demand of its graduates enhance significantly the University's brand name and reputation, in Greece and abroad.

List of degree programmes

Athens University of Economics and Business offers the following Degrees and streams:

A/A	DEPARTMENTS	SPECIALIZATIONS
1.	International and European Economic Studies	1. International Economics and Finance 2. International and European Political Economy
2.	Economics	1. Economic Theory and Policy 2. Business Economics and Finance 3. International and European Economics
3.	Management Science and Technology	1. Operations Research and Business Analytics 2. Operations and Supply Chain Management 3. Software and Data Analysis Technologies 4. Information Systems and Electronic Business 5. Strategy, Entrepreneurship and Human Resources
4.	Business Administration	1. Business Administration 2. Information Systems Management 3. Accounting and Financial Management 4. Marketing
5.	Accounting and Finance	1. Accounting 2. Finance
6.	Marketing and Communication	1. International Management, Innovation and Entrepreneurship 2. Human Resource Management 3. Business Analytics 4. Digital Marketing

7.	Informatics	<ol style="list-style-type: none"> 1. Theoretical Computer Science 2. Computer Systems and Networks 3. Information Systems and Information Security 4. Databases and Knowledge Management 5. Operational Research and Economics of Information Technology 6. Computational Mathematics and Scientific Calculations
8.	Statistics	No specializations are offered

Detailed information about programs and curriculum is provided in each department's study guide and website.

Chief Regulations of the University (including academic recognition procedures)

The regulations include, for example:

- The University's Internal Operating Regulations
- The Organization of Administrative Services
- The Regulations for the Operation of Postgraduate and Doctoral Study Programs
- The Internal Regulation for conducting postdoctoral research

AUEB's ECTS Coordinator

The University's ECTS Coordinator is the Quality Assurance Chairperson, who ensures the University's compliance with the principles and rules of the European credit accumulation and transfer systems, supervises compliance and implementation and is responsible for the full recognition and transfer of credit units.

School of Information Sciences and Technology

The School of Information Sciences and Technology of the Athens University of Economics and Business (AUEB) is one of the strong pillars of Computer Science, Statistics, and Data Analysis in Greece, combining technology with economics and management. It consists of two departments with distinct but complementary roles: (a) the Department of Informatics, which is one of the oldest and most recognized in Greece. It focuses on the foundations of computer science (algorithms, systems, networks) as well as modern applications such as Artificial Intelligence and Cybersecurity, and (b) the Department of Statistics, which focuses on the collection, analysis, and interpretation of data. It is closely connected with Data Science and probability, providing the tools for decision-making under uncertainty. The School offers a wide range of postgraduate programs (Master's Programs), some of which are interdepartmental, inter-university, or in collaboration with international universities.

Department of Statistics

Postgraduate Studies Secretariat: 76 Patision Street, 104 34, Athens, Greece

Telephone: +30-210-8203968

Department Website: <https://www.aueb.gr>

Statistics Postgraduate Website: <https://www.aueb-analytics.gr/>

e-mail: masterst@aueb.gr

The Department of Statistics is the only exclusively dedicated Statistics department in Greece since 1989. It has offered postgraduate studies in Statistics since 1996, and its graduates have demonstrated significant careers in Greece and abroad in various positions, including academic roles, research positions in international and Greek research institutions, as well as positions in the public and private sector in Greece.

In Sports Analytics, the ability to visualize research results using statistical software, model the flow of sporting events through mathematical/statistical models, apply principles of sports management and marketing, and investigate key parameters among the many factors that influence athletic performance requires knowledge of advanced statistical methods. Therefore, undergraduate studies of the department are directly relevant to the subject of the postgraduate program.

Furthermore, the structure of the proposed Master's Program, with its two study cycles and elective courses—through which students are required to accumulate a specific number of teaching/credit units (ECTS) in each period of the program—contributes to the development of well-trained scientists in the field of Statistics. In both study cycles, there is strong relevance both to undergraduate studies, which they continue and specialize, and to the research areas of the faculty members, as in each cycle there is a sufficient number of faculty members with significant research activity in high-quality, high-impact academic journals.

National and Kapodistrian University of Athens (NKUA)

Address: 30 Panepistimiou Street, 106 79, Athens, Greece

Switchboard: +30-210-3689000

Website: <https://www.uoa.gr>

RECTORATE AUTHORITIES

The Rectorate Authorities of the University consist of the Rector and the Vice-Rectors as follows:

Rector: Professor Gerasimos Siasos

Vice-Rectors:

Vice-Rector for Research, Innovation and Lifelong Learning: Nikolaos Thomaidis

Vice-Rector for Administrative Affairs and Student Welfare: Efstathios Efstathopoulos

Vice-Rector for Academic Affairs, International Relations and Extroversion: Sofia Papaioannou

Vice-Rector for Finance and Development: Aristeidis Samitas

Contact Information

Address: 30 Panepistimiou Street, 10679 Athens, Greece

Telephone: +30-210-3689000

Email: webmaster@uoa.gr

Website: <https://www.uoa.gr>

Schools of NKUA

The National and Kapodistrian University of Athens consists of the following Schools:

1. School of Philosophy
2. School of Theology
3. School of Law
4. School of Economics and Political Sciences
5. School of Sciences
6. School of Health Sciences
7. School of Education
8. School of Physical Education and Sport Science

Services

The National and Kapodistrian University of Athens provides administrative and support services to its students and staff, such as library services, catering, accommodation, sports facilities, counseling support, and electronic services. More information regarding the organization and operation of these services is available on the institution's central website.

General Description of the Institution

The National and Kapodistrian University of Athens (NKUA) is the oldest university in Greece, founded in 1837. It is one of the largest universities in Europe in terms of students and staff and covers a wide range of scientific fields in the humanities, social sciences, natural sciences, and health sciences. The institution has a strong presence in academic research and teaching and maintains collaborations with many universities and research centers internationally. Its graduates hold important positions in organizations, research institutions, and businesses both in Greece and abroad.

School & Department of Physical Education and Sport Science (DPESS)

The School of Physical Education and Sport Science (SPESS) of the National and Kapodistrian University of Athens is a single-department school consisting of the homonymous department.

The Department of Physical Education and Sport Science (DPESS) deals with the study, research, and teaching of all aspects of human body movement. It adopts a holistic approach, examining in detail the mental, cognitive, and biological education and health of all individuals through participation in sports and athletic training.

Sports data and athletic training are combined in Sports Analytics. This process involves the collection, analysis, and interpretation of data to help coaches, athletes, and sports scientists make better decisions and improve performance.

Several fields are identified where sports data are used in combination with athletic training, such as: data recording (use of sensors and GPS technologies to measure distance, speed, and activity time during training or competition; use of motion sensors and biomechanical/cardiovascular monitoring to detect movement patterns and physiological responses), data analysis (extraction of specific insights regarding performance, training, and health; application of statistical models to identify relationships and trends in data), personalized training, strategic match analysis (use of sports data to analyze opponent performance, tactics, and weaknesses in order to improve strategies), injury prevention (monitoring and analysis of data related to training load and identifying potential issues in technique or physical condition), performance improvement (application of analyses that enhance technique, physical condition, and overall athlete performance).

The combined use of sports data and athletic training contributes to a better understanding of athletes' needs and capabilities, providing a tool for the design and implementation of optimized training programs.

PART II: INFORMATION ON DEGREE PROGRAMS

(A) General Description

Qualification awarded

1. The Postgraduate Program awards a Master's Degree (M.Sc.) in Sports Analytics with the following specializations:

- a) Specialization 1: Sport Data Science
- b) Specialization 2: Applied Sports Analytics

Structure of the Program

The program is offered in two formats: full-time and part-time study.

1. The full-time program has a duration of 3 academic semesters, with a maximum duration of two (2) years.
2. The part-time program has a duration of 5 academic semesters, with a maximum duration of three (3) years.

Admission requirements

Applicants to the Postgraduate Program must hold a first-cycle degree from a Higher Education Institution (HEI) in Greece or from equivalent recognized institutions abroad (Level 6 of the National and European Qualifications Framework, in accordance with Article 47 of Law 4763/2020).

Final-year undergraduate students are also eligible to apply; if admitted, they may enroll in the program provided that they complete their studies by the September examination period.

Admission/Registration Procedure

Applicants submit their applications electronically to the Secretariat of Postgraduate and Doctoral Studies of the School of Information Sciences and Technology. The selection criteria for candidates are defined in the official call and include, indicatively: undergraduate degree grade, performance in undergraduate courses relevant to the postgraduate program, performance in a thesis (where applicable), scientific publications, any professional experience, as well as qualitative criteria such as (indicatively): university and department of origin, type of research and/or professional experience, knowledge of the English language, knowledge of an additional foreign language, personal interview, letters of recommendation from faculty members and/or employers, and certification of mathematical background through international tests, university courses, or a test administered by the program.

In the case of applications submitted by candidates holding a degree from a foreign institution, the Secretariat of the Inter-University Postgraduate Program verifies, through DOATAP, whether the institution is recognized, following the procedures provided by the applicable legal framework.

Certificates may be submitted in either English or Greek.

The selection process for postgraduate students is as follows:

1. The selection procedure is as follows:

- a) The Director of the Program appoints the Candidate Evaluation Committee.
- b) Each candidate's application file is evaluated by the Candidate Evaluation Committee according to the following procedure:
- c) The Secretariat of the Program initially compiles a complete list of all applicants.
- d) The Candidate Evaluation Committee:
 - i. Rejects candidates who do not meet the selection criteria.
 - ii. Scores candidates according to the established criteria.
 - iii. Ranks candidates based on their scores.
 - iv. Invites selected candidates to an interview. Outstanding students may be admitted without an interview.
 - v. Based on the final scores, prepares the final list of selected candidates.

Educational and professional goals

The Inter-Institutional Postgraduate Program titled "Master's Degree (M.Sc.) in Sports Analytics (Master of Science (MSc) in Sports Analytics)" aims to provide specialized postgraduate-level knowledge to graduates of Greek and recognized foreign Higher Education Institutions in the core fields of Statistics, Analytics, and Data Science, applied to problems arising from sports.

The objective of the IPSP is to educate postgraduate students in the following fields: a) Statistical modeling, b) Sports data analytics, c) Machine learning, d) Analytics of sports performance data, e) Sports data science.

Access to further studies

Access to the PhD Program – 3rd Cycle.

Organization of the Educational Process

1. The Inter-Institutional Postgraduate Program begins at the start of each academic year. The total number of credits of the program is ninety (90) ECTS credits.
2. During their studies, postgraduate students are required to attend and successfully complete postgraduate courses, prepare a Master's thesis or complete an internship, and possibly engage in research activities and the writing of scientific papers.
3. Teaching is carried out through a blended-learning system, in accordance with the applicable regulations. At least 70% of the educational process is delivered through distance learning, either synchronous or asynchronous, while the remaining part may be conducted in person. "Blended learning" is defined as a pedagogically grounded method that combines distance and face-to-face teaching. The organization of the educational process ensures full accessibility for individuals with disabilities and special educational needs.
4. For the academic year 2026–2027, all lectures are planned to be offered remotely, while examinations will be conducted in person at the premises of AUEB or at collaborating departments and institutions.
5. The postgraduate program may organize workshops, conferences, laboratories, and lectures, which may be offered either in person or remotely to students. Participation in these activities is optional.

6. Courses are held on a weekly basis and are conducted in English.
7. The technological equipment required for each student to attend the program and be evaluated includes access to a desktop computer or a portable device (laptop or tablet) and an internet connection.
8. To obtain the Master's Degree (M.Sc.), the completion of 90 ECTS credits is required as follows:
 - a) Mandatory attendance and successful completion of courses corresponding to sixty (60) ECTS credits. If unexcused absences in a course exceed one-third (1/3) of the total teaching hours, the student is considered to have failed the course and must repeat it once during the next period it is offered.
 - b) Preparation and submission of a Master's thesis, or completion of an internship (with the submission of a relevant internship report equivalent to a thesis), or a combination of other educational activities (courses, conferences, seminars, summer schools, internships), subject to approval by the Special Interdepartmental Committee of the IPSP, corresponding to thirty (30) ECTS credits.
9. The courses of each academic year (two teaching semesters) are organized into three teaching periods (TPs), each lasting 10 teaching weeks, followed by examination periods whose duration is determined by the Special Interdepartmental Committee (usually two weeks). Therefore, the two teaching semesters of the full-time program are divided into three TPs, while the four teaching semesters of the part-time program are divided into six TPs. In both full-time and part-time programs, examinations are held three times per academic year, during the following periods: December/January, March/April, and June/July.

Course structure diagram with credits:

The courses of each academic year (two teaching semesters) are organized into three teaching periods (TPs), each consisting of 10 teaching weeks, followed by examination periods whose duration is determined by the Special Committee of the Program.

Therefore, the two teaching semesters of the full-time program are divided into three TPs, while the four teaching semesters of the part-time program are divided into six TPs. In both full-time and part-time programs, examinations are held three times per academic year, during the following periods: December/January, March/April, and June/July.

The schedule of taught and examined courses for the academic year 2026–2027 is specified in detail in Tables 1 and 2 below.

Table 1: Courses of *Specialization 1* (Sports Data Science)

Courses of Specialization 1: Sports Data Science	ECTS	Remote	Full Time	Part Time
1) Introduction to R and Python (Εισαγωγή στην R και στην Python)	5	>70%	1	1
2) Data Analysis (Ανάλυση Δεδομένων)	5	>70%	1	1
3) Visualization and Data Science-Story Telling (Οπτικοποίηση και Εξιστόρηση Επιστημονικών Συμπερασμάτων βασισμένη σε Δεδομένα)	5	>70%	1	4
4) Sports Performance Analysis (Ανάλυση Αγωνιστικής Απόδοσης)	5	>70%	1	4
5) Sports Modelling (Αθλητική Μοντελοποίηση)	5	>70%	2	2

Courses of Specialization 1: Sports Data Science	ECTS	Remote	Full Time	Part Time
6) Big Data Analytics and Management	5	>70%	2	2
7) Applied Sport Economics	5	>70%	2	5
8) Machine Learning	5	>70%	2	5
9) Basketball Data Science	5	>70%	3	3
10) Football Analytics	5	>70%	3	3
11) Selection of 10 ECTS by the following courses	10	>70%	2/3	5/6
Elective Courses	ECTS	Remote	Full Time	Part Time
12) Sports Marketing	5	>70%	2	5
13) Anthology of Sports	2,5	>70%	3	6
14) Operational research and scheduling of athletic events	2,5	>70%	3	6
15) Coaching by numbers	2,5	>70%	3	6
16) Sports Law	2,5	>70%	3	6
17) Sports Management	2,5	>70%	3	6
18) Olympic Event Organization	2,5	>70%	3	6
19) Biomechanics of human movement	2,5	>70%	3	6
20) Integrated Exercise Physiology	2,5	>70%	3	6
21) Special Topics of Sports Analytics	2,5	>70%	1-6	1-6
22) Additional courses offered in the 2nd specialization (Applied Sports Analytics), subject to approval by the Special Committee of the Program following an application by the interested student.	5	>70%	1-6	1-6

Table 22: Courses of *Specialization 2 (Applied Sports Analytics)*

Courses of Specialization 2: Applied Sports Analytics	ECTS	Remote	Full Time	Part Time
Introduction to Mathematics for Sports Analytics	0	>70%	0	0
1) Introduction to R and Python	5	>70%	1	1
2) Introduction to Statistical Methods		>70%	1	1
3) Visualization and Data Science-Story Telling	5	>70%	1	4
4) Sports Performance Analysis	5	>70%	1	4
5) Data Analysis	5	>70%	2	2
6) Sports Marketing	5	>70%	2	2
7) Applied Sport Economics	5	>70%	2	5
8) Sustainability in Sports	5	>70%	2	5
9) Basketball Data Science	5	>70%	3	3
10) Football Analytics	5	>70%	3	3
11) Selection of 10 ECTS by the following courses	10		2/3	5/6
Elective Courses	ECTS	Remote	Full Time	Part Time
1) Sports Modelling	5	>70%	2	5
2) Machine Learning	5	>70%	2	2/5
3) Big Data Analytics and Management	5	>70%	2	2/5
4) Anthology of Sports	2,5	>70%	3	6
5) Operational research and scheduling of athletic events	2,5	>70%	3	6
6) Coaching by numbers	2,5	>70%	3	6

7)	Sports Law	2,5	>70%	3	6
8)	Sports Management	2,5	>70%	3	6
9)	Olympic Event Organization	2,5	>70%	3	6
10)	Biomechanics of human movement	2,5	>70%	3	6
11)	Integrated Exercise Physiology	2,5	>70%	3	6
12)	Special Topics of Sports Analytics	2,5	>70%	1-6	1-6

For students of the second specialization (Applied Sports Analytics) who, following evaluation by the Special Committee of the Program, are found to lack sufficient mathematical background, a preparatory course titled "Introduction to Mathematics for Sports Analytics" will be offered.

This course does not award ECTS credits, has a duration of 15 teaching hours, will be listed in the Diploma Supplement, and is a prerequisite (with a passing grade ≥ 5) for the award of the degree.

Final exams

The final assessment of each course is carried out by any appropriate method, such as written and/or oral examinations and/or written assignments, whether exemption-based or not.

Examination and assessment regulations

- The final grade of each course is determined by the respective instructors. The grade may include individual and group assignments. Attendance at examinations on the scheduled date, as announced in the examination timetable, is mandatory.
- The grading scale ranges from zero (0) to ten (10), in whole or half units. A passing grade is five (5) or higher.
- Each student may retake examinations in courses they have failed during the September examination period. If a student fails again in the September examination period, they are entitled to be examined at the next available examination of the course. In case of failure, the student is removed from the program and is awarded only a certificate of attendance. If a student does not attend the scheduled examination date for a course, they forfeit that examination period and are considered to have failed the course.
- The award of the Master's Degree requires a passing grade in all postgraduate courses and successful completion of the Master's thesis. If this requirement is not met within the prescribed time limit, the student is entitled only to a certificate of successful attendance for the courses in which they obtained a passing grade and must withdraw from the program.
- The Internal Regulations of AUEB define: (a) alternative assessment methods for students with disabilities and special educational needs, and (b) provisions for the assessment of students who are demonstrably ill or recovering from a serious illness during the examination period. Until the issuance of the Internal Regulations, these matters will be regulated by decision of the Senate of AUEB.

Attendance of Courses

Attendance of courses is mandatory. If unexcused absences in a course exceed one-third (1/3) of the total teaching hours, the student is considered to have failed the course and must repeat it once during the next period it is offered.

If the number of absences exceeds the limit set by the Program's Internal Regulations and the reasons for absence are serious, the case may be examined by the Special Interdepartmental Committee (SIC) following a request by the postgraduate student, for final approval.

If the required attendance is not met, the student is considered to have failed the course.

Recognition of Courses

The Inter-Institutional Postgraduate Program provides postgraduate students with the possibility of recognizing courses from previous postgraduate degrees, provided that at least 75% of the course content corresponds to a similar course in a previous postgraduate program.

Recognition is granted by decision of the Special Committee of the Program, following an application by the postgraduate student.

Other Educational Activities

The Postgraduate Program may organize educational activities for its students, such as educational trips, workshops, conferences, company visits, and competitions. Students of the program will have access to the laboratories of the Department of Statistics of the Athens University of Economics and Business.

Academic Advisor for Postgraduate Students

For each postgraduate student, a faculty member is appointed by the Special Committee of the Program as Academic Advisor, with the aim of supporting them throughout their studies, in accordance with the decision of the Senate of AUEB (6th session / 12-01-2023) and the Regulations of Postgraduate and Doctoral Programs of the Institution (Article 12, Government Gazette B 3140/2023).

Scholarships-Awards

- The Inter-Institutional Postgraduate Program may award a number of scholarships to students based on objective, academic, financial, and social criteria, in accordance with a decision of the Special Committee of the Program. This decision defines the amount and number of scholarships, the criteria and required supporting documents, the procedure for awarding them, as well as the obligations and rights of the scholarship recipients. If a scholarship student fails to comply with their obligations, the Special Committee of the Program may revoke the scholarship.
- The Inter-Institutional Postgraduate Program may also grant awards to students with outstanding performance, according to criteria and procedures defined by a decision of the Special Committee of the Program.
- Furthermore, the Inter-Institutional Postgraduate Program may, following a justified decision of the Special Committee of the Program, exempt students wholly or partially from tuition fees,

provided that they offer services to the Program or the Institution.

- Students who have received a scholarship may be required to provide compensatory work (such as tutoring, contribution to library and research activities, or support to university services where needed), following a decision of the Special Committee of the Program.

(B) Description of individual course units

Specialization Courses

Introduction to R and Python

(30 hours, 5 ECTS)

Specialization 1 and 2

Basic principles of programming. Introduction to R, basic elements of the package, command environment, window environment. Arithmetic operations. Expressions. Objects, kinds and types of objects. Syntax of iterative commands (loops – for loops): for command, while command, repeat command. Program creation. Lists of results. Special commands. Graphs in R, creation of multiple graphs. Functions.

Introduction to Python: History, uses and advantages. Basic Syntax. Variables and data types: Numbers, strings, lists, tuples and dictionaries. Basic operations: Assignment of values, arithmetic operations, printing of text. Syntax of if-else. Iterations - loops: the for and while commands. Creation and calling of functions. Introduction to Data Processing (Reading and writing files, Data processing: Sorting, filters, etc., Application of Programming Concepts). Development of a simple application: Example from the beginning to the end.

Literature

- Wickham, H., & Grolemund, G. (2017). R for Data Science. O'Reilly Media.
- Matthes, E. (2019). Python Crash Course: A Hands-On, Project-Based Introduction to Programming. No Starch Press.

Data Analysis

(30 hours, 5 ECTS)

Specialization 1 and 2

Statistical methods are presented in simple problems using R: Descriptive analysis, graphical representation, simulation of random numbers from theoretical distributions, confidence intervals, hypothesis tests for 1 and 2 independent samples, hypothesis tests for 2 dependent samples, contingency tables, simple and multiple regression analysis, analysis of variance for one and two factors. Case studies and analysis of real datasets from various sciences (Economics, Marketing, Social sciences, Sports, Medicine, Psychology and others). Basic principles of writing assignments and presenting data analyses.

Literature

- Field, A., Miles, J., & Field, Z. (2012). Discovering Statistics using R. SAGE Publications Ltd.

Visualization and Data Science-Story Telling

(30 hours, 5 ECTS)

Specialization 1 and 2

This course teaches students the necessary skills to be effective data storytellers. They will learn how to identify and download datasets, extract information from these data and present their findings in a variety of different formats. Students will learn how to “connect the dots” in a dataset through visual data analysis and to find the narrative thread that explains what is happening and engages their audience in a story about the data. Additionally, students will learn how to tell data stories in different ways for different audiences and stakeholders.

Literature

- Knaflic, C. N. (2015). *Storytelling with data: A data visualization guide for business professionals*. John Wiley & Sons.

Sport Performance Analysis (Ανάλυση Αγωνιστικής Απόδοσης)

(30 hours, 5 ECTS)

Specialization 1 and 2

The course of Sport Performance Analysis is a program of applied sports science that focuses on the understanding, improvement and analysis of performance in sport. The curriculum progressively develops your knowledge of tactical analysis, the measurement of technical effectiveness and the analysis of specific technique within actual sport performance using a range of modern techniques and technology. Additionally, it includes familiarization with the analysis of coach and athlete behavior and the application of athlete monitoring techniques. The core units in the Sport Performance Analysis course are complemented by units derived from related fields of coaching, pedagogy and the science of sport and exercise. These elements give the course a unique character that allows the understanding of theoretical principles and the skills of applied process that support performance analysis.

Literature

- O'Donoghue, P. (2014). *An introduction to performance analysis of sport*. Routledge.
- Memmert, D. (Ed.). (2021). *Match analysis: how to use data in professional sport*. Routledge.

Sports modelling

(15 hours, 2,5 ECTS)

Specialization 1 (offered as elective course in Specialization 2)

The course focuses on the application of statistical modeling in the field of sport. Initially, an analysis of simple and multiple linear regression is carried out, with emphasis on fitting the model using the method of least squares. Variable selection and model selection are also analyzed, as well as the diagnosis and treatment of deviations from the assumptions of the model. Finally, applications will be presented on performance analysis data as well as techniques of prediction and inference on match outcomes in sports such as basketball. Continuing, an analysis is made of the extension of regression models to special datasets suitable for modeling in sport. Then, logistic regression is examined, with different models for

binary responses and applications to sports with binary outcomes, such as most sports that do not allow draw final results. This is followed by multinomial regression for categorical outcomes with emphasis on sports that allow a draw as a final result such as football.

Literature

- Wasserman, L. (2013). *All of statistics: a concise course in statistical inference*. Springer Science & Business Media.
- Krzanowski, W. J. (1998). *An introduction to statistical modelling*.
- Morgan, B. J. (2008). *Applied stochastic modelling*. CRC Press.

Big Data Analytics and Management

(30hours, 5 ECTS)

Specialization 1 (offered as elective course in Specialization 2)

In the course, the case of analysis and management of large-volume data is examined. The problems and challenges that arise in the era of big data are also examined. The technologies and trends in the field of big data are analyzed, including large databases, the map-reduce paradigm, big data mining and big data platforms. Definitions and explanations of basic concepts related to databases and their basic construction schemas are provided. A brief introduction to the SQL language is also given. Data engineering and data cleaning are examined, with emphasis on handling missing values and the collection of data from websites (scraping).

Literature

- Chen, M., Mao, S., & Liu, Y. (2014). *Big data: Related technologies, challenges and future prospects*. Springer.
- Marz, N., & Warren, J. (2015). *Big data: Principles and best practices of scalable realtime data systems*. Manning Publications.

Applied Sport Economics

(30 hours, 5 ECTS)

Specialization 1 and 2

The aim of the course is the application of the principles and methodology of economic analysis to various aspects of sport, including professional leagues, teams, athletes, facilities, events and the consumer behavior of fans. The main individual issues it addresses are: competition, the understanding of pricing strategies, elasticity and the factors of change in demand, collective bargaining of player contracts and salaries, revenue-sharing mechanisms, the estimation of the economic impact of facilities and events, and the market of rights and broadcasting transmissions. Overall, the applied economics of sport can provide valuable insights into the complex interactions between economic forces and competitive strategies within the sports industry, contributing substantially to the decision-making process for all stakeholders, from investors and team owners, league administrators to policymakers and fans.

Literature

- Késenne, S. (2014). *The economic theory of professional team sports: An analytical treatment*. Edward Elgar Publishing.

- Leeds, M. A., Von Allmen, P., & Matheson, V. A. (2022). *The economics of sports*. Routledge

Machine Learning

(30 hours, 5 ECTS)

Specialization 1 (offered as elective course in Specialization 2)

The course examines basic concepts related to Machine Learning. The concepts of over-fitting and the problem of the trade-off between bias and standard error are analyzed, as well as the difference between prediction and inference. Techniques of cross-validation are also examined, including training-test-validation sets and Bootstrap methods. Various learning methods are also analyzed, such as supervised and unsupervised learning, as well as classification methods, such as LDA, k-NN, neural networks, decision trees, random forests, the support vector machine (SVM) technique and Naive Bayes methods. The way of measuring model performance is also examined, using various metrics such as accuracy, misclassification rate, sensitivity, specificity, AUC, the ROC curve, Lift, the Brier score and F1. Clustering methods are also presented, such as distance-based methods, hierarchical clustering, the k-means algorithm, model-based clustering and density-based clustering. Finally, dimension reduction methods are analyzed, such as Principal Component Analysis (PCA) and SVD methods, as well as shrinkage techniques, such as LASSO.

Literature

- Hastie, T., Tibshirani, R., & Friedman, J. (2009). *The elements of statistical learning: Data mining, inference, and prediction*. Springer.
- James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). *An introduction to statistical learning: With applications in R*. Springer.
- Murphy, K. P. (2012). *Probabilistic machine learning: An introduction*. MIT Press.

Basketball Data Science

(30 hours, 5 ECTS)

Specialization 1 and 2

The detailed curriculum of data science in basketball combines programming skills and specialization in the field with knowledge of mathematics and statistics for the extraction of meaningful information related to basketball from data. At the most elite level of basketball, teams use data tracking cameras at all angles of the playing court to monitor every movement made by each player on the court. These data are then synchronized with player statistics to provide a complete analysis of player performance.

Literature

- Zuccolotto, P., & Manisera, M. (2020). *Basketball data science: With applications in R*. CRC Press.
- Shea, S. M., & Baker, C. E. (2013). *Basketball analytics: Objective and efficient strategies for understanding how teams win*. Advanced Metrics.

Football Analytics

(30 hours, 5 ECTS)

Specialization 1 and 2

Performance analysis in football has developed in recent years to the point where all professional teams have access to some level of data and employ performance analysts to help coaches, performance analysts, players and staff work with the new available technologies, particularly video. However, as detailed data and analytics are integrated into club processes, it is important that staff have the skills not only to interpret and apply this information correctly, but also to present and support insights to decision-makers. Teams also collect large databases with their own subjective information about players, but do not manage these data properly, and clubs still have limited knowledge of how to use data for strategic planning. The Football Analytics course aims to develop managers who can make decisions, based on the provided models, regarding match choices and the valuation of both players and teams.

Literature

- Memmert, D., & Raabe, D. (2018). *Data analytics in football: Positional data collection, modelling and analysis*. Routledge.
- Memmert, D., Strauss, B., & Theweleit, D. (2023). *Mind Match Soccer: The Final Step to Become a Champion*. Springer Nature.

Sports Marketing

(15 hours, 5 ECTS)

Specialization 2 (offered as elective course in Specialization 1)

The purpose of the course is to familiarize students with the application of the principles and functions of marketing in the sports sector. Through the course, an attempt is made to analyze and deepen into issues and practices related to sporting events, teams, athletes and sports products or services. Emphasis is placed on issues concerning the behavior of sports consumers, the importance and methods of market research, and the creation and promotion of both sports and sponsorship programs.

Literature

- Dees, W., Walsh, P., McEvoy, C. D., McKelvey, S., Mullin, B. J., Hardy, S., & Sutton, W. A. (2022). *Sport marketing*. Human Kinetics.
-

Introduction to Mathematics for Sports Analytics

(Preparatory course, 15 hours, 0 ECTS)

Specialization 2

The purpose of this introductory course is to refresh the knowledge of students (who do not come from fields of positive sciences) in basic mathematical concepts. During this course, the following will be covered: the concepts of differentiation, integration, maximization of a function and basic concepts of linear algebra and matrices (matrix operations, inverse of matrices, determinant of a matrix).

Literature

- Kraljevic, A. H. (2006). *Calculus for Non-Mathematics Majors*. Pearson.
- Harville, D. A. (2008). *Matrix Algebra From a Statistician's Perspective*. Springer.

Introduction to Statistical Methods

(30 hours, 5 ECTS)

Specialization 2

The course aims to introduce students to the basic tools and techniques for the analysis and interpretation of data, as well as for the subsequent decision-making process. The application of statistical methods through SPSS can help students understand patterns, trends and relationships in data, as well as deepen their understanding in predicting changes in behavior due to future effects.

Literature

- Field, A., Miles, J., & Field, Z. (2012). *Discovering Statistics using R*. SAGE Publications Ltd.

Sustainability in Sports

(30 hours, 5 ECTS)

Specialization 2

The aim of this course is the training of learners in the implementation of Sustainable Development programs in sports organizations. Specifically, students will become familiar with the implementation of strategies for reducing the environmental footprint of sports organizations as well as with the implementation of social sustainability programs. The course will focus on the following thematic units: Introduction to Sustainable Development in Sport. The Environmental Footprint of Sport. Environmental Sustainability in sport. Social sustainability in Sport. Economic Sustainability in Sport. The Benefits of implementing sustainable practices. Data Management and statistical applications in environmental sustainability. Marketing of environmental practices and attraction of Sponsorships. Changing perceptions through ecology and sport. How to measure the footprint of a sports event through sample survey.

Literature

- Parnell, D., & Widdop, P. (Eds.). (2015). *Sport and Sustainability: Environmental Challenges and Strategic Solutions*. Routledge.

Elective Courses

Anthology of Sports

(15 hours, 2,5 ECTS)

Specialization 1 and 2

This course aims to introduce students to the particularities of data analysis in various sports, as well as to the challenges they face regarding data collection, the problems and their analysis. In the course, track and field sports will be presented (prediction, evaluation of movement and technique), net & wall sports (such as tennis and volleyball), American Sports (Baseball, American football, Hockey). The challenges that appear in e-games will also be presented, where there is an abundance of data (from player behavior patterns to the strategies used). Finally, a comparison will be made between individual one-versus-one sports and team sports. Case studies with data from various sports.

Through this course, students will gain an understanding of the application of data analysis methods in different sports, as well as the challenges that arise from this process. This knowledge will equip them with the tools they need to develop and apply analytical strategies in the field of sport.

Literature

- Albert, J., & Bennett, J. and Cochran, J.J. (2007). *Anthology of Statistics in Sports*. ASA-SIAM Series on Statistics and Applied Probability. Society for Industrial and Applied Mathematics.
- Albert J., Glickman M.E., Swartz T.B, Koning R.H. (2019). *Handbook of Statistical Methods and Analyses in Sports*, Handbooks of Modern Statistical Methods, Chapman & Hall/CRC
- Statistics Meets Sports Hardcover – March 1, 2023
- Dominicy Y. and Ley C. (2023). *Statistics Meets Sports*. Cambridge Scholars Publishing; 1st edition (March 1, 2023)

Operational research and scheduling of athletic events

(15 hours, 2,5 ECTS)

Specialization 1 and 2

This course aims to introduce students to the applications of operations research in sports scheduling. Students will acquire knowledge in modeling techniques and problem-solving related to the creation of fair, efficient and attractive match schedules for various sports.

Introduction to Operations Research (Basic concepts and methodologies of operations research, mathematical models of decision-making). Sports event scheduling (Objectives and constraints, factors affecting the creation of schedules, e.g. venue availability, team travel, spectators). Modeling of Scheduling Problems (Linear optimization models for sports scheduling). Non-linear models and solution algorithms (e.g. genetic algorithms, simulated annealing). Evaluation and Analysis of Schedules (Performance indicators for sports scheduling, e.g. fairness, balance, commercial value). Use of software for the development and analysis of schedules. Applications in Different Sports. Case studies from real-world sport.

Literature

- Lawrence, J.A. and Pasternack, B.A. (2002). *Applied Management Science: Modeling, Spreadsheet Analysis, and Communication for Decision Making*. Wiley & Sons
- Ribeiro C.C., Urrutia S., de Werra D. (2023). *Combinatorial Models for Scheduling Sports Tournaments*. EURO Advanced Tutorials on Operational Research Series. Springer Nature Switzerland; DOI: <https://doi.org/10.1007/978-3-031-37283-4>
- Serbin B.J. (2019). *A Schedule Quick: Quick & Easy Scheduling for Recreational Sports Leagues*.

Coaching by numbers

(15 hours, 2,5 ECTS)

Specialization 1 and 2

In today's data-driven world, sports teams increasingly rely on analytics to gain a competitive advantage. While coaches have traditionally relied on their experience and intuition, the emergence of sports analytics has revolutionized the way teams approach game strategies and player development. Sports data are part of a process of collecting, analyzing and interpreting information related to athletic

performance. Coaches and players use it to gain insights and make informed decisions. Data in sports analytics can be collected from various sources, such as: video, wearable devices, tracking systems, statistical databases. By identifying patterns in player performance, coaches can adjust their training programs to address specific weaknesses or enhance existing strengths.

Literature

- O'Donoghue, P., & Holmes, L. (2014). *Data analysis in sport*. Routledge.
- Passos, P., Araújo, D., & Volossovitch, A. (2016). *Performance analysis in team sports*. Taylor & Francis.

Sports Law

(15 hours, 2,5 ECTS)

Specialization 1 and 2

The course is an introduction to the basic concepts that are formed in the international legal order through the presentation of cases from international competitive and sports activity. It includes the basic methods and procedures for the interpretation of provisions, the institutional framework of sport, the issue of doping, the methods of resolving sports disputes, the supranational character and the limits of autonomy and independence of global sports law. The ultimate aim of the course is the understanding of how rules operate in sport from their creation to their application.

Literature

- Nafziger, J. (2021). International sports law. In *International Sports Law, 2d ed.* Brill Nijhoff.

Sports Management

(15 hours, 2,5 ECTS)

Specialization 1 and 2

The course of sports management focuses on the organization, management and coordination of various aspects of the sports industry. The aim of the course is to provide the necessary knowledge and skills for the smooth operation and success of sports organizations, events, facilities and businesses, emphasizing the basic functions of sports management. It includes the understanding of basic management principles, the importance of creating strategic plans and the implementation of policies and procedures for the effective achievement of objectives. The course also focuses on the processes of development and management of human resources and the understanding of the legal and ethical aspects that affect sport and the management of sports organizations.

Literature

- Masteralexis, L. P. (2023). Principles and practice of sport management. Jones & Bartlett Learning.
- Slack, T., & Parent, M. M. (2006). *Understanding sport organizations: The application of organization theory*. Human Kinetics.

Olympic Event Organization

(15 hours, 2,5 ECTS)

Specialization 1 and 2

The course focuses on the most important issues of the successful organization of Olympic events, which extend from the bidding process, the coordination and cooperation of the various stakeholders and the evaluation. It focuses on the dimensions that shape the overall experience of both participating athletes and spectators, mainly concerning infrastructure, security, marketing and promotion. The course includes case studies related to the connection with the local community within the framework of sustainable management of sports events.

Literature

- Parent, M. M., & Ruetsch, A. (2020). *Managing major sports events: Theory and practice*. Routledge.

Biomechanics of human movement (Εμβιομηχανική)

(15 hours, 2,5 ECTS)

Specialization 1 and 2

The course focuses on the concepts of biomechanical modeling for the analysis of human movement. The course will address the needs of students regarding mechanical modeling from the perspective of sports skill analysis, the development of the main concepts of kinematics and dynamics of human body movement, as well as an introduction to the modeling of the human musculoskeletal system.

Literature

- McGinnis, P. M. (2013). *Biomechanics of sport and exercise*. Human Kinetics.

Integrated Exercise Physiology

(15 hours, 2,5 ECTS)

Specialization 1 and 2

The aim of this course is to enable students to understand, monitor and analyze the biological and physiological data that can be included in athlete monitoring in sports performance and/or health. After the completion of the course, the student will be able to recognize physiological adaptations to exercise and training, to manage methods and tools for the evaluation of biological and physiological parameters, to know all the biological data that can be included in an athlete's monitoring record for medical or performance purposes, and to be able to analyze activity by mobilizing scientific knowledge.

Literature

- Kraemer, W. J., Fleck, S. J., & Deschenes, M. R. (2011). *Exercise physiology: integrating theory and application*. Lippincott Williams & Wilkins.

Special Topics of Sports Analytics

(30 hours, 5 ECTS)

Specialization 1 and 2

The course "Special Topics in Sports Analytics" aims to provide students with exposure to advanced, innovative and contemporary topics in Sports Analytics, through specialized lectures by internationally recognized scientists and professionals in the field. The course functions as a platform for introducing cutting-edge techniques and applications that are not sufficiently covered in the core courses of the program.

Additionally, through this unit, activities such as thematic workshops, study days, conferences, workshops and hands-on project-based activities are incorporated into the curriculum, linking theory with practice.

Indicative Thematic Units: (the selection varies per year/semester depending on collaborations and guest lectures)

- Advanced Player Tracking Analytics
- Tactical and Spatial Analysis in Team Sports
- Machine Learning for Performance and Injury Prediction
- Wearable Technologies and Data Interpretation
- Biomechanics and Sports Data
- Bayesian Models in Sports
- Psychology and Cognitive Analytics in Sport Performance
- Salary Cap and Financial Decision Modeling in Sports
- e-Sports Analytics and Gaming Data
- Decision Support Systems for Coaching and Scouting

Literature

- Severini, T. A. (2020). Analytic methods in sports: Using mathematics and statistics to understand data from baseball, football, basketball, and other sports. 2nd Edition. CRC Press.
- Dominicy, Y., & Ley, C. (Eds.). (2023). Statistics Meets Sports: What We Can Learn from Sports Data. Cambridge Scholars Publishing

DISSERTATION THESIS

30 ECTS

The preparation of the Thesis constitutes the writing by the student of a research work in which the existing articles/literature are studied, research hypotheses are formed, existing methodologies are studied and extended, relevant data are collected and processed, empirical results are recorded and conclusions are drawn.

The content of the Thesis includes indicatively some of the following sections: Abstract, Introduction, Literature review, Research methodology, Description of the data, Empirical results, Simulations to support the findings, Summary and conclusions, Bibliography, Appendices.

The evaluation of the Thesis is based on a series of evaluation criteria of each section and of its overall picture. The Thesis is evaluated by a three-member examination committee consisting of the supervisor and two other faculty members or instructors in the MSc program. The student is required to present the Thesis before the examination committee.

Requirements

For the preparation of the Thesis, it is required that the courses of the MSc program have been completed.

PART III: INFORMATION FOR THE STUDENTS

General Student Information

The Athens University of Economics and Business provides not only high-quality education but also high-quality student services. The adoption of the Presidential Decree 387/83 and Law 1404/83 defines the operation, organization, and administration of Student Clubs at Universities, which aim at improving the living conditions of the students and enhance their social and intellectual wellbeing through engagement and socialization initiatives.

To fulfill this objective the University ensures the required infrastructure for housing, meals, and sports activities through the operation of a student restaurant, reading rooms, library, organization of lectures, concerts, theatrical performances, and excursions in Greece and abroad. Further in this context, the University supports the development of international student relations, organizes foreign language classes, computer/software literacy classes, and courses in modern Greek as a foreign language for foreign students and expatriated Greek students.

Detailed information on meals, housing, fitness, foreign languages, cultural activities, scholarships, financial aid, is provided on the website of AUEB's Student Club at <https://lesxi.aueb.gr/>

Electronic Services

A significant number of procedures related to both attendance and student care are carried out electronically through applications of the University or the Ministry of Education and Religious Affairs. All applications are accessible with the same codes (username & password).

- **E-mail account:**

Detailed instructions for using the Webmail Service are provided at <https://www.aueb.gr/el/content/webmail-manual>

- **Electronic Secretariat (Student Register)**

The Electronic Secretariat application is the information system through which students can be served by the Department's Secretariat via the web.

- **Wireless network**

Using their personal codes, students have access to a wireless network in all areas of the Athens University of Economics and Business buildings/campus.

- **E-Learning Platform – ECLASS**

The Open eClass platform is an integrated Electronic Course Management System and is the proposal of the Academic Internet (GUnet) to support Asynchronous Distance Education Services.

Instructions are provided at <https://eclass.aueb.gr/info/manual.php>

Medical Services, Insurance / Healthcare

Undergraduate, postgraduate and PhD students at the University who have no other medical and hospital care are entitled to full medical and hospital care in the National Health System with coverage of the relevant costs by the National Health Service Provider. A psychiatric counseling service also operates at the University, staffed with a physician specializing in the treatment of mental health issues.

More information at <https://www.aueb.gr/en/content/health-care> .

Services/Facilities to Students with Special Needs

The Athens University of Economics and Business ensures the facilitation of students with special needs, through the design, implementation, and environmental adaptations, for access to the

university building facilities. In the main building there are specially configured lifting machines, ramps, and elevators. There are also special regulations for conducting exams for students with special needs.

The Athens University of Economics and Business has established a Committee for Equal Access for people with disabilities and people with special educational needs. The Commission is an advisory body and submits recommendations to the competent bodies for the formulation and implementation of the policy of equal access for persons with disabilities and persons with special educational needs.

Through the Library services, students with physical disabilities are granted electronic access to the recommended Greek bibliography of the courses taught at the University. In this context, the Association of Greek Academic Libraries (SEAB) has developed a multimodal electronic library called AMELib.

More information is available at <https://www.aueb.gr/el/lib/content/amea-atoma-me-idiateires-anages>.

Library and Study Rooms

The Library & Information Center of the University operates at the University's main building. The AUEB Library is a member of the Hellenic Academic Libraries Association (Heal-LINK), the European Documentation Centers Europe Direct and the Economic Libraries Cooperation Network (DIOBI).

Three Documentation Centers operate within the library:

- The European Documentation Center
- The Organization for Economic Cooperation and Development (OECD) Documentation Center
- The Delegation Center of the World Tourism Organization (WHO)

The library contributes substantially both to meeting the needs for scientific information of the academic community and to supporting studying and research. The library provides access to:

- printed collection of books and scientific journals,
- course books used in modules,
- collection of electronic scientific journals& books
- postgraduate theses and doctoral theses that are produced in Athens University of Economics and Business and deposited in digital form at the PYXIDA institutional repository
- sectoral studies
- statistical series by national and international organizations
- audiovisual material
- information material (encyclopedias, dictionaries)
- databases on the topics used by the University
- printed collections of other academic libraries

The library lends all its printed collections, except for magazines and statistical series, in accordance with its internal rules of operation. The Library and Information Center offers reading rooms, computer workstations for visitors, photocopiers and printing machines, and interlibrary loan of books and journal articles from other academic libraries that are members of its network. More information at <https://www.aueb.gr/en/library>.

International Programs and Information on International Student Mobility

Athens University of Economics and Business is actively involved in the Erasmus+ Program since 1987 promoting cooperation with universities, businesses, and international organizations of the European Union (EU) as well as in the mobility of students, teaching, and administrative staff.

In addition, strengthening its internationalization objectives, it creates new opportunities through the Erasmus+ International Mobility Program. Within this framework, mobility scholarships are granted through the State Scholarships Foundation (SSF) to incoming and outgoing students of the three study cycles, according to the funding approved each year by the State Scholarship Foundation for the University. Outgoing students have the possibility to spend a period of study at a Partner Institution outside the EU with full academic recognition through the application of the ECTS credits system <https://www.aueb.gr/en/content/erasmus-programme>

Connecting with the Job Market and Entrepreneurship

The Internship & Career Office aims to support students and graduates of the Athens University of Economics and Business (AUEB) in their integration into the labor market. The unit also provides counseling services to help students and graduates make informed decisions regarding their professional and educational future. It has two main activities: (a) internships, and (b) connecting students and graduates with businesses.

In addition, AUEB hosts ACE-in (Athens Center for Entrepreneurship and Innovation), a self-funded unit dedicated to promoting entrepreneurship, supporting the commercialization of research, and bridging the gap between academia and the market. As a dynamic innovation hub, it provides aspiring entrepreneurs, researchers, and students with the resources, guidance, and networks needed to transform their ideas into impactful businesses.

The mission of ACE-in is to empower the vision of students and graduates, transform research into impactful ventures, and contribute to the development of a vibrant entrepreneurial ecosystem. As an independent unit, it has the flexibility to design modern programs that respond to real market needs, supporting early-stage startups and fostering a culture of creativity and problem-solving.

Student Associations

Various student clubs and associations are active within the community of the Athens University of Economics and Business

(<https://www.aueb.gr/el/content/student-associations>).

Alumni Network

Adhering to a long tradition of educating future top executives in the economic, social, and political life of the country, AUEB is proud that thousands of its graduates hold leading positions in companies, organizations, research institutes and universities in Greece and abroad. Understanding the importance of developing and strengthening the bond with its graduates, AUEB created its Alumni network including a platform <https://alumni.aueb.gr> where all graduates of the University can register. The main objectives of the Network are the connection of the graduates with their colleagues and former fellow students, and diffusion of information about activities, services, and events in and around the University that concern them.

Additional information on Clubs and Alumni Associations is available on the website <https://www.aueb.gr/el/content/organizations-and-associations-of-students-and-alumni>.

Volunteer Program

Within the framework of its strategies, the "AUEB Volunteers" Volunteering Program was launched in September 2017. The aim of the Program is to highlight important social issues and the value of participation and practical contribution, but also to raise community awareness regarding the 17 UN Sustainable Development Goals. Actions are developed around two pillars: (a) actions addressed to AUEB's Community, which have as their main objective the maintenance of the quality of the

University's infrastructure based on their aesthetics and functionality, and (b) actions addressed to Greek society. (<https://aebvolunteers.gr/>).

Quality Assurance

The Athens University of Economics & Business implements a quality assurance policy to continuously improve the quality of its study programs, research activities and administrative services, and upgrade the academic and administrative processes and the University's operations. The Quality Assurance Unit (MODIP) operating at AUEB coordinates and supports evaluation processes. Particularly the quality assurance of the educational process is achieved using the module/teaching evaluation questionnaire completed by AUEB students. (<https://aueb.gr/modip>).

Training and Lifelong Learning Center

The Center for Training and Lifelong Learning (**KEDIVIM**) is an AUEB unit which ensures the coordination and interdisciplinary cooperation in the development of training programs, continuing education, training and in general lifelong learning, which complement, modernize and/or upgrade knowledge, competences, and skills, acquired from formal education, vocational education and initial vocational training systems or from work experience, facilitating integration or reintegration in the labor market, job security and professional and personal development.

(<https://www.aueb.gr/el/content/dia-vioy-mathisi-kedivim-opa>).