Ege University
Faculty of Agriculture

Department of Animal Science

"Discover, Learn, Apply"

DEPARTMENT OF ANIMAL SCIENCE

1958

With the decision dated 20.05.1958, the foundations of today's Department of Animal Science were laid by establishing the "Chair of Animal Husbandry and Breeding" along with the "Chair of Feeds and Animal Nutrition," under the leadership of Prof. Dr. Orhan DÜZGÜNEŞ.

1973

After the enactment of the Universities Law No. 1750 on 07.07.1973, the Faculty Board of the Faculty of Agriculture adopted the "department system composed of chairs," in accordance with Article 37 of the Law.

1975

At that time, the Faculty Board proposed to the Senate the establishment of the Department of Animal Science, composed of two chairs, by renaming the existing chairs as the "Chair of Animal Breeding and Aquatic Products" and the "Chair of Animal Nutrition and Physiology." This proposal was approved by the decision dated March 4, 1975.

1982

After the enactment of the "Regulation on Academic Organization in Universities" on 18.02.1982, the name of the Department of Animal Science remained unchanged, and it was structured into three divisions: the Division of Animal Breeding, the Division of Animal Nutrition and Feed, and the Division of Biometry and Genetics.

1982

In Turkey, the mineral content of organic and inorganic materials was first determined using an atomic absorption device at the Department of Animal Science, Faculty of Agriculture, Ege University.

2022

As of 28.03.2022, the Animal Science Undergraduate Program has received a 2-year accreditation.

MISSION & VISION

Ege University aims to be a pioneering research university in Turkey and a leading one globally. It is committed to meeting regional, national, and international needs in the fields of research and education, transferring its R&D knowledge for the benefit of society, and educating individuals who are centered on student-focused values, professionally and culturally competent, open to change, and who adopt scientific thinking as a way of life.

Its vision is to become a world-class university that leads in scientific research, has a strong network of cooperation and communication with national and international stakeholders, is student-centered, green, sustainable, accessible, and livable, and contributes to economic, social, and cultural life with a strong financial structure.

The mission of the Faculty of Agriculture is to be among the world's leading faculties of agriculture; to conduct innovative research and student-centered educational activities in agricultural sciences; to provide scientific and technological solutions to regional, national, and global needs; and to educate individuals who are loyal to national values, have broad perspectives, can think analytically, apply scientific techniques, and possess strong cultural and social qualities.

The Department of Animal Science aims to conduct high-quality research to improve the quality of life in society through the production of healthy and sufficient animal-based food from farm to table, and to train Agricultural Engineers specializing in Animal Science who possess adequate knowledge and skills and meet universal professional standards.

DEPARTMENT OF ANIMAL SCIENCE

MANAGEMENT BOARD

Prof. Dr. Özer Hakan BAYRAKTAR

Head of the Department

Assoc. Prof. Dr. Hayrullah Bora ÜNLÜ

Vice Chair of the Department

Assist. Prof. Dr. Veysel BAY

Vice Chair of the Department

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Prenatal Adaptation
Meat Quality

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Animal Breeding
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Feed Additives

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Genetics
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Biotechnology

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Welfare of Small Ruminants
Carcass and Meat Quality

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Reproductive Biology
Artificial Insemination
Biotechnology in Animals

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Breeding Planning in Dairy Cattle
Herd Management Systems
Calf Rearing
Mastitis

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Feeds and Feed Technology
Feed Biotechnology

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Beekeeping and Breeding
Silkworm Rearing
Bee Products
Apitherapy

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Herd Management
Calf Rearing
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Animal Science and Nutrition
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Waste Management
Animal Housing

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Threshold Model
Statistics
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Feed Evaluation Techniques
Ruminant Nutrition
Sustainability in Animal Nutrition
Organic Animal Farming

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Ruminant Nutrition

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Pet Animal Breeding
Monogastric Animal Production
Electronic Identification

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Microbiota

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Hatchery Management
Welfare

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Poultry Nutrition

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Veterinary Medicine
Internal Medicine
Preventive Health

EDUCATIONAL OBJECTIVES

1. Graduates of the Ege University Animal Science Program can pursue their professional careers in the public or private sector, or establish their own enterprises.

2. They may continue their education at the graduate level and serve as academics, specialists, or lecturers at universities or research institutes.

3. Program graduates may also work as project engineers, trainers, inspectors, or consultants in their field.

Animal Science is a scientific discipline that encompasses the production, breeding, nutrition, and genetic improvement of economically important animals.

It includes the rearing, feeding, and improvement of large animals (cattle, buffalo, horse), small ruminants (sheep, goat), poultry (chicken, quail, turkey, goose, duck, ostrich), laboratory/experimental animals (rat, mouse, rabbit, etc.), and others (bee, silkworm, etc.).

Additionally, it covers a wide range of topics such as feed and alternative feed sources, biotechnology in animal husbandry, use of computers in livestock management, trial design and planning, project feasibility and organization, organic animal farming, animal product quality and hygiene, and good agricultural practices.

The Department of Animal Science contributes to science through research aimed at producing safe, healthy, and sufficient animal-based food "from farm to fork" and aims to train Agricultural Engineers who are experts in the field of Animal Science and equipped with universal knowledge.

In addition to undergraduate education, the department also offers master's and doctoral degree programs as part of the Institute of Natural and Applied Sciences.

You can access detailed information about the education programs of our faculty and department via the QR code.

PROGRAM OUTCOMES

1. Theoretical and practical fundamental knowledge in basic sciences, basic engineering, and agricultural engineering subjects.
2. Sufficient theoretical and practical knowledge in animal breeding, reproduction, genetics, housing, welfare, nutrition, feeds, feed technology, biometry, preservation of local animal genetic resources, biotechnology, and animal product processing.
3. Sufficient theoretical and practical knowledge in obtaining healthy animal products, feed and food safety, sustainable animal production, environmental protection, and rural development; understanding of contemporary issues reflected in agricultural engineering.
4. Ability to investigate events and phenomena related to animal production using scientific methods and techniques; analyze the components and processes of the animal production system; evaluate the accuracy, reliability, and relevance of acquired information.
5. Ability to collect data, analyze and interpret it, define and question problems, manage risks, and develop solution proposals based on research.
6. Ability to effectively write and comprehend reports in the field, prepare design and production reports, deliver effective presentations, and give and receive clear and understandable instructions.
7. Ability to design a complex system, process, device, or product related to animal production to meet specific needs within current conditions and apply modern design methods for this purpose.
8. Ability to independently carry out studies related to animal production; take responsibility individually or as a team member to solve problems encountered in production processes; collaborate in interdisciplinary work.
9. Awareness of lifelong learning, ability to follow developments in science and technology, continuously improve oneself, and transfer innovations to animal production; awareness of entrepreneurship and innovation.
10. Ability to access information related to animal production, conduct literature reviews, use databases and other information resources effectively, plan analytically, and develop strategies.
11. Sensitivity to current events at the national and global level; ability to contribute to public awareness; produce and implement projects with social responsibility; adapt to different cultures and social life.
12. Ability to use a foreign language at least at A2 level of the Common European Framework to follow information in the field of animal production and communicate with colleagues.
13. Ability to prepare, implement, manage, and monitor plans and projects by considering environmental, technical, technological, and economic aspects in animal production; use of necessary information and communication technologies.
14. Acting in accordance with scientific, cultural, and ethical values in agricultural engineering and animal production; knowledge of relevant legislation and ability to act accordingly; awareness of the legal consequences of engineering solutions.
15. Adequate sensitivity and awareness regarding human health and welfare, animal health

and welfare, environmental protection, occupational health and safety, social justice, quality culture, and preservation of cultural values in agricultural engineering and animal production.

CAREER OPPORTUNITIES

Graduates of the department are titled “Zooteknist”. They conduct research to improve the productivity of animals used for food and other products and gain expertise in breeding, housing, and nutrition to advise producers.

Agricultural engineers trained in the field of Animal Science can work in various institutions such as:

Agricultural engineers trained in the field of Animal Science can work in the following areas:

- Farms affiliated with the Ministry of Agriculture and Forestry,
- Provincial Directorates of Agriculture and Agricultural Research Institutes,
- Research centers and private farms, feed factories, and feed additive production facilities/laboratories,
- Breeding enterprises and breeder associations,
- Agricultural Credit Cooperatives,
- Provincial Health Directorates,
- Food inspection units and slaughterhouses,
- Providing consultancy services to animal breeders

They can establish dealerships for the sale of agricultural pharmaceuticals. By specializing in animal breeding, nutrition, and genetics, they contribute to national livestock production as future scientists.

While many graduates of the department are employed in public institutions and the private sector, some of our colleagues have also established their own businesses and continue to work in their field independently. Communication with alumni working in both sectors is maintained, and through organized career days, the connection between graduates and students is actively encouraged and supported. Additionally, educational activities continue with graduate students pursuing master’s and doctoral degrees.

EDUCATIONAL AND RESEARCH OPPORTUNITIES

The classrooms and laboratories are well-equipped to meet the goals of the curriculum and achieve the program outcomes. Physical, chemical, and biological analyses of animal products and feeds are conducted in the department's laboratories. These laboratories include:

Chemical Analysis Laboratory

Physiology and Genetics Laboratory

Microbiology Laboratory

Milk, Meat, and Egg Analysis Laboratory

Beekeeping Laboratory

Semen Production and Analysis Laboratory (Figures 1–3)

In addition to laboratory facilities, the department also benefits from various units for research, practical training, and production purposes. These facilities are actively used in educational and research activities and include:

Cattle Research and Application Unit

Small Ruminant Research and Application Unit

Poultry Research and Application Unit

Biological Analysis Unit

Departmental Feed Unit (Figure 4)

There are also three meeting rooms within the department's divisions and two lecture halls for undergraduate education (Reşit Sönmez and Şükrü Bulgurlu classrooms) (Figures 5–6).

You can review more details about the department’s physical infrastructure on the following page.

Figure 1. Beekeeping Laboratory

Figure 2. Milk, Meat, and Egg Analysis Laboratory

Figure 3. Chemical Analysis Laboratory

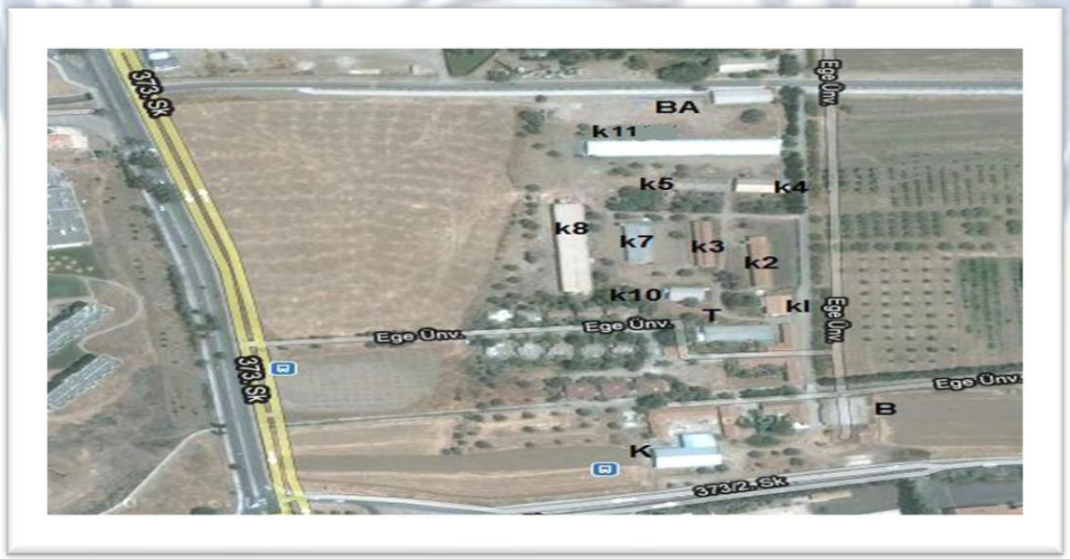

Figure 4. Research and Application Units of the Department of Animal Science (BA: Biological Analysis Unit; T: Poultry Research and Application Unit; k1–k11: Poultry Houses; kl: Hatchery; B: Cattle Research and Application Unit; K: Small Ruminant Research and Application Unit)

Figure 5. Reşit Sönmez Classroom

Figure 6. Şükrü Bulgurlu Classroom

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DEPARTMENT INSTAGRAM