

# Department of Animal Science and Fisheries

Faculty of Agriculture Science & Technology





## About Department

The Department of Animal Science and Fisheries functions under the Faculty of Agricultural Science and Technology. It adopts a multidisciplinary approach focusing on teaching and training for undergraduate students and farmers. The department also contributes to the production and supply of milk and milk products, eggs, chicken, fish, organic manure, biofertilizers, and biogas. Additionally, it aims to develop integrated farming systems by incorporating various agricultural components such as dairy, poultry, fisheries, crops, and horticulture.

## Vision

To be a center of excellence in animal science education, research, and innovation by adopting Outcome-Based Education (OBE) to nurture skilled professionals, entrepreneurs, and researchers who contribute to sustainable development, animal welfare, and societal advancement.

## Mission

- To implement NEP-2020 and Outcome-Based Education (OBE) in Animal Science for fostering critical thinking, problem-solving, and industry-relevant competencies:

The focus will be on developing analytical skills and enhancing problem-solving abilities in students, equipping them with the knowledge to address challenges in animal health, breeding, nutrition, and management. This would include interdisciplinary learning methods, case studies, and problem-solving projects that are based on real-world animal science issues.

- To promote research and innovation in Animal Science, addressing challenges in animal health, livestock production, and environmental sustainability:

Research will be encouraged in areas like disease prevention, genetic improvement of livestock, and sustainable farming practices. Innovations could focus on better healthcare for animals, efficient feed production, and sustainable waste management techniques, contributing to global food security and environmental conservation.

- To develop industry-ready professionals through hands-on training, advanced laboratory exposure, and interdisciplinary learning in Animal Science:

Students will engage in practical training in animal husbandry, veterinary practices, animal nutrition, and farm management. Lab-based learning and fieldwork opportunities would provide a deep understanding of the scientific principles that drive modern animal science, preparing them for a wide range of careers in academia, industry, and government.

- To encourage skill development and entrepreneurship by integrating academic learning with real-world applications, fostering a startup culture and technology-driven solutions in Animal Science:

This would involve introducing students to innovative ideas in animal science, such as precision livestock farming, animal welfare technologies, and bioinformatics. Entrepreneurship could be promoted through incubation centers, where students are encouraged to develop animal-related startups, focusing on areas like pet care, dairy technologies, and sustainable aquaculture.

- To establish strong collaborations with academia, industry, and research institutions for knowledge exchange and holistic student development in Animal Science:

Collaboration with industry partners, research organizations, and veterinary hospitals would be key. These partnerships can lead to internships, joint research projects, and even guest lectures by industry experts. Such collaborations would help students stay ahead in the latest trends and advancements in animal science, as well as provide opportunities for knowledge-sharing between academia and industry.



## Faculty



**Pro. S.K. Pandey**

Director,  
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**Ms. Garima Singh**

Teaching Associate



**Ms. Poonam Sharma**

Teaching Associate



**Mr. Amritlal Bagri**

Lab Assistant



## A. Instructional Dairy Farm

AKS University has established instructional Dairy unit during 2013 with 10 cows of Sahiwal Breed. Later on in 2016 Gir Breed of cow was introduced for teaching purposes. A total of 42 Sahiwal and 09 Gir cattle of different age groups were stationed during the year 2019-20 which has increased to 98 Sahiwal and 28 Gir at the present (2024-25).



**A View of Dairy Building**



**Sahiwal Cows**



**A View of Cows in paddock**



## B. Instructional Poultry Farm

AKS University has analyzed it in detail and prepared some key secrets to enhance and master this business by improving practical demonstrations among the students and the interacted farmers.

5 different breeds are housed in our poultry farm namely- Aseel, Kadaknath, Narmada Nidhi, Rhode Island Red(RIR), and Sonali. The number of birds is continuously increasing using Hi-Tech Artificial Incubation, hatching and brooding management.



**A View of Chickens in Poultry house**



### C. Instructional Azolla Production Unit



**A view of Azolla unit**

Azolla, a small aquatic fern, has several important benefits for poultry and livestock farming. It is a sustainable, high-protein, and highly nutritious feed source that can contribute to the health and growth of animals.

### D. Instructional Fisheries unit

AKS University fish pond is established with a length of 20 meter length, 15 meter width and 5 meter depth with the total water held at 3 meter level. The pond is spread over 0.03 hectare land with the tarpaulin sheet placed at bottom and raised over borders to top to prevent water percolation.



**A View of Fisheries Tank at Integrated Farming System unit**



## E. Instructional Biogas Unit

Biogas production from cow dung offers an innovative and sustainable solution to address both waste management and energy needs. AKS University is harnessing the natural process of anaerobic digestion, where cow dung is transformed into a valuable source of renewable energy. This method not only reduces the environmental impact of livestock waste but also provides a cleaner, greener alternative to traditional fossil fuels in our bakery.



**Mixing of cow dung slurry for biogas production**

## Laboratory

A dynamic space designed to foster hands-on learning, research, and innovation in the fields of animal husbandry and aquaculture. Our lab is equipped with modern tools and facilities to provide students and researchers with a comprehensive practical experience.





