



# Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya- 224229



## Strategic Plan

The basic purpose of the university is multifold:

1. To produce qualified manpower for the development of agriculture and allied sectors viz. Veterinary Science and Animal Husbandry, Fisheries science, Horticulture and forestry and Community Science (Home Science) and Agriculture Engineering.
2. The university is determined to inculcate high ethical and social and moral standards in the students so that they constitute a manpower that is knowledgeable, ethically bound and socially responsible.
3. To develop newer technologies for farmers based on latest developments and needs of the country as a whole and the state of Uttar Pradesh in particular.
4. To provide quality base material (seed, planting material, pedigreed animals/poultry, fish etc) to the farmers for their upliftment.
5. To disseminate the latest developments and tools for modernization in Agriculture and allied sectors to the farmers through a network of Extension so that the farmers can cope up with changing scenario and become self-reliant.
6. To support family households, particularly women, to become economically and socially self-reliant.

## Academic:

### Short Term Goals:

- To develop the courses as per the current needs of the country.
- To provide sufficient and up to date practical knowledge to the students so that they can form a knowledgeable man force for agriculture and allied sectors.
- Inspiring and supporting the faculty to regularly update their knowledge.
- Inspiring the faculty to align towards state of art teaching delivery.
- Adding the newer concepts as per the Governments objectives of education, teaching and Research.

### Mid Term Goals:

- To upgrade the curriculum as per the needs of GOIs New Education Policy.
- To establish Incubation center for each branch of the university.
- To motivate the faculty to continuously rejuvenate themselves.
- To provide sufficient funds to develop international standard practical facilities.
- Filling up of vacant faculty positions.

- To develop “state of the art” laboratories and study centers to provide latest knowledge to the students.
- To establish linkages with foreign organizations.

### **Long Term Goals:**

- To establish centers of innovation in each faculty.
- To establish the international center for students and faculty collaboration.

## **Research:**

### **Short Term Goals:**

- To identify and develop the areas of Research in agriculture and allied fields as per the current needs of the country.
- To develop new strategies/ Methodologies/ varieties/ breeds those are useful for the farmers under existing conditions and climate change.
- To inspire the faculty to participate actively in development of research pertaining increase the farmers income.
- To provide sufficient support and space to researchers for newer innovations.
- Identification of resistant/tolerant donors with high yield potential against major insect-pests and pathogens and their utilization
- Identification of genotypes with better nutrient uptake ability and efficient utilization (Input use Efficiency).
- Promotion of Soil Health Card and Integrated Nutrient Management
- Studies on in-situ moisture conservation in different ecosystem
- Survey, Characterization and Genetic improvement of Entomopathogens
- Molecular characterization of biotypes of insect pests and plant pathogens
- Molecular marker based monitoring of evolutionary and short term insect pest/pathogen dynamics to effectively devise the control strategies
- Identification of active ingredient of botanicals and pheromones
- Identification, characterization and conversion of photo-period insensitive germ plasm accessions to make them suitable for the region.
- Pre-breeding/conversion of unabated germ plasm of cultivated species of mandate crops into usable and early synchronized maturity & value added varieties.
- Value addition in major millets crop product and employment generation.
- Development of phytomedicines to combat problem of drug resistance.
- Up gradation of infrastructure for better research facilities regarding diagnosis and prophylaxis of animal diseases.
- Development of economically viable, environmental friendly sustainable aquaculture.
- To work on the value addition of the milk and milk products and standardized the process.

## **Mid Term Goals:**

- To upgrade research priorities as per the needs of GOIs agricultural Policy.
- To provide sufficient funds for Research activities.
- To get extra mural Research funding from various Government and Non-Government agencies.
- Development of genetic material using speed breeding programme for mandate crops.
- Sustainable intensification and diversification cropping systems with better management practices for both favorable and unfavorable environments.
- Development of Integrated Farming System model
- Nanotechnology for enhancement of input use efficiency
- Technology refinement for rainwater harvesting through watershed, management and conservation of rain water for efficient and effective use
- System analysis and simulation modeling for effective forecasting yield under biotic and a biotic stresses.
- Development of resistant/tolerant bio-agents to pesticides and mass multiplication.
- Development of the technology for processing, packaging, storage, extension of shelf life and value added products (including minimally processed) and prevention of the post-harvest losses.
- Technology refinement for rainwater harvesting through watershed, management and conservation of rain water for efficient and effective use.
- Development of Integrated Pests Management model
- Development of Low Cost Multiuse Farmers Friendly Machines for the marginal and small farmers.
- Establishment of Gene Bank for conservation of biodiversity in mandate crops.
- Demonstration and Popularization of natural and organic farming system in farmer's community for sustainable agriculture.
- Strategic mineral feed supplements for milch animals of Eastern Uttar Pradesh.
- Development of diagnostic kits for animal diseases.
- To develop, adopt and demonstrate intensive aquacultural practices.
- Marketability of the standardized products with the associated agency certification to get it commercialized along with the patent approval.

## **Long Term Goals:**

- To establish centers of innovation in the area of Research.
- To develop strategies for sustainable farming under the changing climatic conditions and industrial development leading to narrowing down the availability of agricultural land.
- To establish the international center for international collaboration for research.
- Development of climate smart varieties through conventional and molecular breeding approaches
- Breeding for high yielding varieties/hybrids: Tolerant/resistant to wide range of biotic/a biotic stresses through pyramiding of genes using conventional and molecular tools.
- Bio-fortification of popular varieties of the university.
- Development of genotypes for early and late heat tolerance wheat varieties.

- Development of short duration varieties suitable for Eastern Uttar Pradesh conditions in lentil and chickpea and pigeon pea,.
- Development of high yielding, better quality and disease/pest resistant genotypes in major crops.
- Generation of genetic variability for resistance to biotic and abiotic stresses through use of wild relatives in mandate crops.
- Development of CGMS lines in related crops.
- Gene pyramiding for the development of disease resistant varieties in mandate crops.
- Marker assisted selection for biotic, abiotic and quality traits.
- Development of physiologically efficient plant types.
- Development of varieties for sustainable production under intensive management conditions for mandate crops.
- Evaluation of available germ plasm under organic cultivation in mandate crops.
- Development of vegetable varieties/hybrids suitable for off season/ harsh condition in important vegetables for processing, export & dehydration purposes.
- To enhance the productivity of animals in Eastern Uttar Pradesh by breed up gradation with superior germ plasm,
- Development of feeding strategy to the livestock for improving their health and productivity.
- Strategic control of infectious diseases of animals in eastern Uttar Pradesh.
- To increase income of fish farmers by value added fish and fish based products.
- Encouragement of the rural communities and the livestock owners to have access to milk processing and value addition technology protocol for more income.

## **Extension:**

### **Short Term Goals:**

- Facilitate for the promotion of extension outreach programme not only for the faculty but within the students as well.
- Sensitize farming community about the flagship programme.
- Sort out the seasonal agricultural problems faced by the farming community.
- Capacity building of extension functionaries.
- Assessment, refinement, validation and adoption of frontline technologies and other short term researchable issues through KVK.
- Introduce good agriculture practices in extension and outreach activities.
- Effective and efficient communication, information and technology management.

### **Mid Term Goals:**

- Enhance the productivity and profitability of farming community.
- Support the development of a skilled and capable workforce.
- Continuation of the best practices in extension activities and preparation of comprehensive roadmap for future.
- Empowerment of migrants and landless farmers through extension services to produce sustainability.
- Encourage farmers to seize entrepreneurial opportunities.
- Enhance agricultural production and process to promote economic development in the next few years.

### **Long Term Goals:**

- Enhance sustainable management and ensure efficient use of agricultural resources and production inputs.
- Develop and support Agro-processing initiatives that add value to the agricultural production.
- Ensure sustainable farming enterprises that will create wealth.
- Ensure sustainable livelihoods through job creation and food security.
- Accelerating rural development.

### **Administration:**

#### **Short Term Goals:**

- To fill up vacant Teaching and Non-Teaching positions.
- To develop online system of administrative management for correspondence and filing.



Registrar  
A.N.D. Univ. of Agri. & Tech.  
Kumarganj, Ayodhya