



2024

Volume: 03

Issue: 03

July-September

Content

- ❖ Technologies Evaluated
- ❖ Event Organized and Visits Made
- ❖ Publications/Awards/Invited Lectures

Chief Editor

S.S. Singh

Director Extension Education

Editorial Board:

Shridhar Patil

Brij Bihari Sharma

Pavan Kumar

Sanjeev Kumar

Alka Jain

Pramod Kumar Soni

From the Vice-Chancellor Desk



Increasing farm productivity, mitigating the impact of climate change, and enhancing resource use efficiency are crucial for ensuring the nation's food security and achieving the vision of *Viksit Bharat* by 2047. There is a need to strengthen the agri-supply chains and enhance the economic and environmental sustainability of agriculture. Application of science and technology can play a significant role in the transformation of agriculture and its growth. Special need to mainstream the recent advances, especially in the fields of ICT, artificial intelligence, and machine learning, into farm

production, processing, marketing, and supply chain operations.

On the front of farm production, technologies like drought- and stress-tolerant crops and crop varieties, resource conservation technologies, IOTs, smart sensors, etc. can increase the production, mitigate climate change impacts, and enable efficient use of resources. Besides this, the application of artificial intelligence and machine learning can be helpful in the generation and dissemination of real-time advisory services at relatively low cost among a large number of farmers. Other potential applications for transforming Indian agriculture toward science- and technology-driven growth include crop diversification, precision farming, conservation agriculture, and the use of drones and satellite imagery for crop monitoring. Similarly, the cold storage and transport facilities, blockchain and traceability technologies, unified payment interface (UPI), etc. have huge potential to contribute towards strengthening of agri-supply chains.

The application of technology has the potential to significantly enhance agriculture e-governance. This year, the Hon'ble Prime Minister, chairing the Union Cabinet Committee, approved the Digital Agriculture Mission to support various digital agriculture initiatives and harness their potential in the agriculture sector. It will aid in achieving digital authentication of services to enhance transparency in the implementation of government schemes, generate crop maps for improved disaster response, and develop digital infrastructure to optimize value chains and offer customized advisory services to farmers.

The joint efforts and cooperation between agricultural R&D organizations, policymakers, farmers, and other private stakeholders in the agriculture sector are instrumental in achieving the science and technology-led transformation of the agriculture sector.



Vice-Chancellor

❖ Identification of climate-resilient varieties of millets

The Uttar Pradesh Council of Agricultural Research (UPCAR) funded the project "Identification of nutritionally superior climate-resilient varieties of millets through evaluation of landraces/available varieties/germplasm and development of good agronomic practices for their promotion" in 2024. As part of this project, 180 accessions are being characterised for agro-morphological, nutritional, and yield traits alongside three checks: DHBM-93-3, VL-207, and Co-KV2. A research experiment is being conducted in collaboration with the Indian Institute of Millets Research (IIMR), Hyderabad. The experiment includes three entries for each of the nine different millets—pearl millet, sorghum, *ragi*, barnyard millet, *kodo* millet, little millet, proso millet, browntop millet, and foxtail millet—totalling 27 entries. Each entry is replicated twice. The objective of the study is to assess the potential of these millets for cultivation in the Bundelkhand region (**Rumana Khan**).



❖ Urd bean research trials

An evaluation of 212 urdbean lines was conducted, focusing on key traits such as waterlogging tolerance and resistance to pre-harvest sprouting. These trials are essential for identifying resilient urdbean varieties capable of withstanding the unpredictable weather patterns often encountered in the Bundelkhand region. The findings aim to support farmers by reducing crop losses and improving yield reliability. (**Jitendra Tiwari**).

❖ Groundnut evaluation studies

Various groundnut entries sourced from ICRISAT and DGR Junagadh, along with 16 entries from station trials, were evaluated at the RLBCAU research farm in Jhansi for their yield-attributing traits and adaptability to the Bundelkhand region. This research aims to identify varieties with high yield potential and strong adaptation traits that can enhance groundnut productivity under local agro-climatic conditions. (**Jitendra Tiwari**).



Event Organized and Visits Made

❖ Research Council Meeting

The 6th Research Council meeting of RLBCAU, Jhansi, was held on September 20 2024, chaired by Honorable Vice-Chancellor Dr. Ashok Kumar Singh. In attendance were distinguished guests, including Dr. Pankaj Kaushal, Director of ICAR-Indian Grassland and Fodder Research Institute, Jhansi; Dr. Masood Ali, Former Director of ICAR-Indian Pulses Research Institute, Kanpur; Dr. Sudhakar Pandey, Assistant Director General (Horticulture); Dr. J.S. Chauhan, Former Assistant Director General (Seed), ICAR; Dr. R.K. Tyagi, Joint Director (Animal Husbandry), Madhya Pradesh; and Sri L.B. Yadav, Joint Director of Agriculture, Uttar Pradesh, along with the statutory officers of the University. Dr. S.K. Chaturvedi, Director of Research and Member Secretary of the Research Council presented the key highlights of research activities and the progress made over

the past year. Detailed presentations on research initiatives covering crops, vegetables, flowers, fruits, and agroforestry systems were given. Twelve agro-technologies ready for scaling up on farmers' fields were also discussed.

The Hon'ble Vice-Chancellor emphasised the importance of identifying and documenting the problems faced by farmers in the Bundelkhand region and orienting research to address these challenges. A focused discussion took place on Kharif crops such as groundnut, castor, urdbean, sesame, rice (DSR), maize, ginger, colocasia, turmeric, spine gourd, beans/sem, strawberry, dragon fruit, and orange. Research on *rabi* crops like chickpeas, lentils, durum wheat, mustard, linseed, vegetable pea, seed spices, and sweet potato was also highlighted as a priority. The potential of agroforestry systems, particularly those incorporating mustard, chickpea,

or lentil as intercrops at the initial growth stages and colocasia, ginger, or turmeric as shade-loving crops at later stages, was underscored based on research at the University. Additionally, the development of Integrated Farming Systems (IFS) for small, medium, and large farm holders in the Bundelkhand region was discussed. The members also noted the potential for promoting animal husbandry and fish farming through nutrient-rich diets and supplements.



❖ Initiation of Eight Certificate Courses

Rani Lakshmi Bai Central Agricultural University, Jhansi, has introduced eight courses aimed at building the capacity of youth and farmers by developing entrepreneurship skills in employment-oriented agricultural subjects. These certificate programs, each lasting three months, are open to candidates who have completed at least an Intermediate level of education. The certificate courses include Crop Protection and Plant Health Management, Mushroom Production and Processing, Honey Production and Processing, Seed Production Technology and Seed Certification, Horticulture and Ornamental Nursery Management, Polyhouse Protected Cultivation of Vegetables, Hi-Tech Forestry Nursery Management, and Remote Sensing and Geographic Information System. These courses aim to equip candidates with valuable skills and assist them in establishing their own industries.



❖ 78th Independence Day Celebration

Rani Lakshmi Bai Central Agricultural University celebrated the 78th Independence Day on August 15, 2024,

with great enthusiasm. The program commenced with the garlanding of the statue of Rani Lakshmi Bai at the university entrance. The Hon'ble Vice-Chancellor, Dr. Ashok Kumar Singh, hoisted the national flag, followed by a parade by NCC cadets and PRD personnel. Recalling the sacrifices of the country's freedom fighters, the Vice-Chancellor noted that India's independence was won through their selfless efforts. He mentioned the contributions of leaders like Chandrashekhar Azad, Bhagat Singh, and Subhash Chandra Bose and acknowledged the soldiers at the border, whose dedication allows citizens to sleep peacefully. Rani Lakshmi Bai Central Agricultural University, Jhansi, holds national significance and continues progressing. Various cultural programs were performed on the occasion. The event was attended by statutory officers, faculty, students, and non-teaching staff. Ashutosh Sharma and Y. Bijilaxmi Devi hosted the event.



❖ Teachers Day and 28th Atal Jai Vigyan Lecture

On September 5, 2024, the University celebrated Teachers' Day by organising the 28th Atal Jai Vigyan Lecture, delivered by A. K. Singh, former director of the Indian Agricultural Research Institute, New Delhi. Dr. Singh's lecture, "Transformation in Agricultural Education and Research towards *Viksit Bharat*," focused on agricultural education and research advancements to achieve a developed India. He emphasised interdisciplinary approaches, innovation, and the integration of advanced technologies such as A.I., biotechnology, and climate-smart agriculture. Hon'ble Vice-Chancellor Dr. A.K. Singh underscored the importance of modernising education to nurture future agricultural leaders to support the vision of a developed India. The event saw enthusiastic participation from students and faculty alike. (Amit Kumar Singh, Sharwan Shukla, Y. Bijilaxmi Devi, Shiv Vendra Singh, and Vaibhav Singh).



❖ FDP on Competency Enhancement in Agricultural Research and Education

A five-day off-campus Faculty Development Program (FDP) was organised at the University in collaboration with ICAR-National Academy of Agricultural Research Management (ICAR-NAARM) from 9th to 13th September 2024. A total of 40 participants from various RLBCAU constituent colleges—CoA, CoHF, CoVAS, and CoF—attended the program. Ten faculty members from ICAR-NAARM, including four online lecturers, conducted the sessions. M. Balakrishnan, Program Director at ICAR-NAARM, served as the course director. The program covered modern teaching methods, research management, and technology integration, which received positive feedback. Participants expressed their intention to apply what they learned in their academic work.



❖ Second College Level NSS Advisory Committee Meeting of National Service Scheme

The second meeting of the College Level Advisory Committee of NSS for Agriculture, Horticulture, and Forestry College was held at the University, Jhansi, on July 16 2024. R. K. Singh, President of the NSS Advisory Committee of CoA, and Manish Shrivastav presided. The meeting covered activities undertaken by NSS units, plans for the next session, approval of the 2023-24 activities, the 7-day special camp, and the NSS Program Officers'

Orientation. It was proposed that new villages be explored to foster responsibility-building. Committee members provided suggestions for upcoming programs. Attendees included Yogeshwar Singh, Manmohan Dobriyal, Prashant Jambhulkar, and others, along with students and NSS officers.



❖ Second Advisory Committee Meeting of National Service Scheme (NSS)

The meeting took place at the University in Jhansi, under the chairmanship of Vice-Chancellor Dr. Ashok Kumar Singh, on August 8. This pivotal gathering brought together key advisory members, including Manju Singh, State Liaison Officer for NSS; Samardeep Saxena, Youth Officer from the NSS Regional Office; Sushil Babu from the Higher Education sector; Satya Prakash Gupta; Prabhat Pandey, Regional Transport Officer; and Sanjay Singh, Secretary of Parmarth Social Service Institution. The meeting was further enriched by the participation of various university statutory officers, the Student Welfare Officer, the NSS Program Coordinator, the NSS Program Officer, and student representatives from both colleges, creating a dynamic and collaborative session.



❖ Workshop on NARES - Blended Learning Platform (BLP)

The Workshop on NARES-BLP was held at the University from 11th to 12th July 2024. This two-day workshop aimed to equip faculty and master trainers with the skills to effectively utilise the BLP, developed under the Resilient Agricultural Education System (RAES) of the NAHEP Component 2 project. The BLP combines offline and online

learning to create an engaging educational environment, enhancing student outcomes through visual aids and interactive sessions. Technical sessions were conducted by resource persons Sudeep Marwaha, HoD (Computer Applications), ICAR-IASRI, R.C. Goyal, IT Consultant, Sameer Srivastava, IT Consultant, and Tarun Khurana, IT Expert. (Anil Kumar, V. David Chella Baskar).



❖ **Launching of Academic Management System (AMS) at RLBCAU, Jhansi**

On July 31 2024, Rani Lakshmi Bai Central Agricultural University, Jhansi, launched the Academic Management System (AMS) as part of its digitalisation efforts in association with ICAR-IASRI, New Delhi. The event was inaugurated by Hon'ble Vice-Chancellor Dr. Ashok Kumar Singh, who highlighted the system's ease of use and its time-saving benefits for academic management. Anil Kumar, Director of Education, emphasised its importance, while virtual guests from ICAR-IASRI, Sudip Marwaha and Alka Arora, praised the initiative, supporting the University's promotion of digital education. Deans from various colleges attended the event and actively participated in it by faculty members. The program concluded with a vote of thanks by Dr. M.J. Dobriyal, Dean of the College of Fisheries Science. (Tanuj Misra & Shailendra Kumar).



❖ **One-Day meeting of NABARD officials**

A one-day meeting was held on September 30 between NABARD, Madhya Pradesh, and the University officials. The program, chaired by Vice-Chancellor Dr. Ashok Kumar Singh, began with DGM NABARD Sushil Kumar introducing the NABARD officials and discussing its activities. Director of Research S. K. Chaturvedi highlighted the University's education, research, and extension efforts. Dr. Singh welcomed the NABARD officials and emphasised the University's progress, particularly in major crops of Bundelkhand, processing, and market linkages. Visitors toured various demonstration units, including the polyhouse, fruit orchard, crop technology cafeteria, and the Integrated Farming System model. CGM NABARD Sunil Kumar, GM NABARD Qamar Javed, and other NABARD officials were present. (S. K. Chaturvedi, Sanjeev Kumar, S. Patil, R. K. Singh, Ranjit Pal, Arpit Suryawanshi, Anshuman Singh).



❖ **Participation in virtual Agriculture seminar on "Stakeholders Consultation Meet on Transforming Agriculture Research- Enhancing Role of Private Sector"**

The University participated in a virtual agriculture seminar on September 3 2024. The stakeholder consultation, organised by the Ministry of Agriculture and Farmers Welfare, was chaired by the Hon'ble Minister of State for Agriculture and Farmers Welfare, Shri Bhagirath Choudhary, and moderated by the Secretary, DA&FW, Secretary DARE, and Director General, ICAR. The session, held in a hybrid mode, was attended by more than 1,000 participants nationwide, including ICAR institutes, other organisations, FPOs, progressive farmers, and various stakeholders. Five progressive farmers from the Bundelkhand region also took part in the seminar: Shri Sujeet Kumar Pathak (Lalitpur), Shri Ashok Kumar Singh (Jalaun), Shri Gulab Singh Raikwar (Jhansi), Shri Puspendra Singh Yadav (Jhansi), and Shri Raj Kumar Dubey (Jhansi). All statutory officers were also present during the seminar.



❖ हिन्दी पखवाड़ा का आयोजन

हिन्दी पखवाड़े की शुरुआत 13 सितम्बर को माननीय कुलपति महोदय की अध्यक्षता में हिन्दी दिवस के आयोजन से हुई। इस अवसर पर राजभाषा कार्यान्वयन समिति के सदस्यों ने भारत मंडपम, नई दिल्ली में आयोजित दो दिवसीय चतुर्थ अखिल भारतीय राजभाषा सम्मेलन में माननीय गृह एवं सहकारिता मंत्री श्री अमित शाह जी के मुख्य आतिथ्य में प्रतिभाग किया। पखवाड़े के दौरान निबंध लेखन, स्व-रचित कविता, पोस्टर, श्रुत लेखन, अंताक्षरी, और स्वयं द्वारा ली गयी फोटो शीर्षक प्रतियोगिता जैसी कई प्रतियोगिताओं का आयोजन किया गया। प्रतियोगिताओं को तीन श्रेणियों (शैक्षणिक, गैर-शैक्षणिक, एवं विद्यार्थी) में विभाजित किया गया, जिसमें कुल 133 प्रतिभागियों ने उत्साहपूर्वक भाग लिया। समापन समारोह 30 सितम्बर 2024 को आयोजित किया गया। मुख्य अतिथि, पूर्व शिक्षा मंत्री डॉ. रवींद्र शुक्ल ने अपने सम्बोधन में हिन्दी के तेजी से हो रहे वैश्विक विकास पर प्रकाश डाला और कहा कि विदेशों में हिन्दी के प्रसार से यह जल्द ही वैश्विक भाषा बनेगी। माननीय कुलपति प्रो. अशोक कुमार सिंह ने शोध पत्र और कृषि विज्ञान साहित्य हिन्दी में लिखने और प्रकाशित करने के लिए प्रेरित किया। राजभाषा कार्यान्वयन समिति के अध्यक्ष डॉ. सुशील कुमार चतुर्वेदी ने कर्मचारियों को हिन्दी में अधिक कार्य करने के लिए प्रोत्साहित किया। अधिष्ठाता (कृषि) डॉ. राम केवल सिंह ने बताया कि विश्वविद्यालय में गैर-हिन्दी भाषी क्षेत्रों के विद्यार्थियों के लिए हिन्दी सीखने का एक अच्छा अवसर है। समारोह के अंत में, माननीय कुलपति और मुख्य अतिथि ने सभी प्रतियोगिताओं के विजेताओं को प्रमाण पत्र वितरित किए।



❖ A workshop on Mind Matters

A workshop on "Mind Matters" was organised by the senior faculty of Art of Living, Bangalore, featuring a session on "Yoga and Meditation" on August 30, 2024. This session was held in the esteemed presence of Vice-Chancellor Dr. Ashok Kumar Singh. Bholanath Jena from Art of Living led the session, teaching techniques for controlling the mind and relaxing the body through yoga and meditation. All university officials, faculty members, and employees participated in this one-hour session.



❖ Celebration of Anti-Ragging Week

To raise awareness about the ill effects of ragging, the University celebrated Anti-Ragging Day on August 12, 2024, followed by Anti-Ragging Week. Every year, from August 12 to 18, the University organises various events such as slogan writing, poster making, essay writing, and speech and debate competitions to educate students about ragging. Students participated enthusiastically and expressed their views on the topic. During the valedictory function on the last Day, Honourable Vice-Chancellor Dr. A. K. Singh emphasised the need for a safe environment where all students can feel secure. He encouraged students to support and be friendly with newcomers. Winners of various events were awarded (Shubha Trivedi, Ashutosh Srivastava, Rumana Khan, and Ghanshyam Abrol).



❖ Celebration of National Fish Farmers Day at Datia

The College of Fisheries at RLBCAU, Datia, commemorated National Fish Farmers Day on July 10, 2024, with great enthusiasm through informative lectures. This event underscored the college's commitment to the progress of fish farmers and the fisheries sector, with participation from fifty progressive fish farmers. Hon'ble Vice-Chancellor A. K. Singh felicitated two outstanding fish farmers from the Bundelkhand region. A slogan competition for students was also held, centred on the theme of Fish Farmers Day. Dr. A. K. Singh emphasised the vital role of

fisheries in global food security and the economic prosperity of fishing-dependent communities. Additionally, technical sessions were organised to address advancements and challenges in fisheries (**College of Fisheries**).



❖ **Certificate Course on Mushroom Production**

A three-month certificate course on "Mushroom Production" began for entrepreneurs at the Mushroom Lab and Entrepreneurship Centre, RLBCAU, Jhansi, on August 1, 2024. Sixteen entrepreneurs from Jhansi, Mahoba, Lalitpur, Datia, and Meerut, as well as five students from Rajasthan and Bihar, have enrolled. The course covers various mushroom species, their morphology, nutritional and medicinal properties, and health benefits. Participants will receive hands-on training in spawn production and the cultivation of oyster and white button mushrooms, helping them establish a viable mushroom farming model. The course emphasises value addition, post-harvest management, grading, packaging, storage, and marketing. Legal procedures for setting up a mushroom unit, technical, financial, and commercial aspects of the business, government schemes, and industry registration will also be discussed to support entrepreneurs in establishing mushroom production ventures. (**Shubha Trivedi, Vaibhav Singh, P. P. Jambhulkar and Pallavi Shukla**)



❖ **MOU between RLBCAU, Jhansi and RISE Jhansi**

The University signed a MoU with the RISE Jhansi Smart City Incubation Centre, a Jhansi Smart City Ltd project, on August 28, 2024. The collaboration fosters innovation and entrepreneurship by supporting pre-incubation, incubation,

and acceleration programs. The partnership was formalised during a ceremony attended by key figures, including Satya Prakash, CEO of Jhansi Smart City Ltd, Dr. A.K. Singh, Vice-Chancellor of RLBCAU, and Anil Kumar. Additionally, the event also saw the launch of the brochure for the "Young Innovators Conclave & RISE Jhansi Hackathon 2.0".



❖ **MOU signed between RLBCAU, Jhansi and BIRD, Lucknow**

The University has signed a MoU with the Bankers Institute of Rural Development (BIRD), NABARD, Lucknow. The MoU was signed in the gracious presence of the Hon'ble Vice-Chancellor of RLBCAU, Prof. A. K. Singh, Director of Education, Anil Kumar and Shefali Agarwal, Joint Director of BIRD, Lucknow, and Sriram Appulingam, General Manager, BIRD, Lucknow. This partnership aims to catalyse the process of rural development, agricultural research, and capacity building, benefiting the farming communities in the Bundelkhand region.



❖ **Education tour of B.F.Sc Students to Recirculatory Aquaculture System**

On September 25, 2024, an exposure visit was organised for the second-year Bachelor of Fisheries Science (B.F.Sc.) program students at the Karera Fish Farm in Madhya Pradesh. During the visit, students were introduced to the farm's facilities and gained hands-on experience with the Recirculatory Aquaculture System (RAS). The farm team provided an in-depth demonstration of the RAS's structural design and operation, offering students a valuable opportunity to observe routine maintenance practices. Students also studied the fish species cultured within the

RAS and collected water samples to analyse physicochemical parameters and their fluctuations. An interactive session with a progressive fish farmer, the owner of the RAS unit, further enhanced the student's understanding of the practical aspects of fish farming and system management (**Abhishek Srivastava, Anuj Tyagi, Girija Behere, Neelesh Kumar, Partha Sarathy Tripathy and Ganesh Kumar T**).



❖ Cage Culture Demonstration and limnological studies at Pahuj Dam for B.F.Sc. First Year Students

On July 31, 2024, a cage culture demonstration site visit was organised for first-year students of the B.F.Sc. program at *Pahuj Dam*. During the visit, students thoroughly understood cage aquaculture techniques, the fundamentals of cage culture, and methods for rearing fish within cages. They investigated the limnological parameters of *Pahuj Dam* by collecting water and sediment samples for physicochemical analysis. The dynamic ecological processes of the reservoir, its productive status, and weed infestation control techniques in the reservoir and limnetic zone were also assessed. An interactive session with Gyanendra Singh, Deputy Director of Fisheries for the Jhansi Division, provided insights on evaluating the suitability of local water bodies for cage culture, understanding regulatory frameworks, and identifying support mechanisms for local fish farmers. (**Sudhanshu Raman, Girija Behere, Ganesh Kumar T, Abhishek Srivastava, and Anuj Tyagi**).



❖ State Study Tour 2024

A three-day study tour was organised for B.Sc. (Hons) Agriculture students (second year) from August 4-6, 2024. During the tour, the students (61) visited Chandra Shekhar Azad University of Agriculture and Technology (CSAUA&T), Kanpur, along with four ICAR institutions viz. Indian Institute of Pulses Research, Indian Institute of Sugarcane Research, National Bureau of Fish Genetic Resources and Central Soil Salinity Research Institute in Kanpur and Lucknow. They explored museums, laboratories from various divisions, field experiment plots, and farmsheds. The tour offered valuable insights and practical knowledge, enhancing the student's academic and professional growth (**Vishwanath, Smita**).



❖ 'One Tree for Mother' campaign under the 'Van Mahotsav'

On July 6 2024, the National Service Scheme (NSS) volunteers at the University celebrated the 'One Tree for Mother' campaign under the 'Van Mahotsav'. This event was conducted under the guidance of the Honourable Vice-Chancellor Dr. A.K. Singh. On this occasion, the volunteers planted various indigenous species of plants in Ram Van and Biodiversity Park. This event was a significant step towards environmental conservation and aimed at promoting biodiversity. All statutory officers, department heads, and faculty members were also present at the event, participating in the tree planting and contributing to the campaign's success. This collective effort reflects their dedication and commitment to the environment.



❖ Awareness Campaign on Drug Addiction

The National Service Scheme (NSS) unit of the University organised a special campaign on July 27 to raise awareness about drug addiction. The main objective of this campaign was to spread awareness among the youth about the harmful effects of drug abuse. The program began with a debate competition on drug addiction in which the NSS volunteers participated. In this competition, Kshitij Ranjan secured the first position, Sudipta Dhara secured the second, and Siddharth Raghav and Vishal Mandal, a first-year B.Sc. (Fisheries) student, secured the third. Puneet Chaudhary, the University's medical officer, delivered an awareness lecture to discuss the health, social, and economic damages caused by drug addiction and urged the youth to stay away from drugs.



❖ Budget Awareness Session (2024-25) for NSS

The Budget Session 2024-25 (Employment and Skill Development Plan) Program was organised at the University on July 27 2027. Second-year forestry and horticulture students participated in the event. Vikas Pratap Bhadauria, Asst. Comptroller at the University delivered a lecture on the Union budget 2024-25. He motivated the NSS volunteers about becoming job creators and the importance of registration and trademarks for startups. He also elaborated on the funds allocated for youth employment in the Budget Session 2024-25.



❖ Consumer Awareness Program by NSS

The NSS Unit of Rani Lakshmi Bai Central Agricultural University Jhansi organised a Consumer awareness program with the active participation of NSS volunteers from the CoHF on August 3 2024. During the event, Mr. Bhaskar

Manna and Mr. Lokesh Saini gave speeches on consumer rights and three-tier justice systems to address consumer issues. The program also featured a poster-making competition with the theme "*Jago Grahak Jago*," encouraging students to express their understanding of consumer rights and responsibilities creatively.



❖ "Ek Ped Maa Ke Naam" Initiative by NSS

The NSS unit of the University organised a tree planting campaign under the 'Ek Ped Maa Ke Naam' initiative at the National Service Scheme (NSS) Park on August 8. The program included planting avenue plants, such as *Arjun*, *Karanj*, and *Neem*, and fruit-bearing plants like mango, amla, and jackfruit. Dr. Ashok Kumar Singh initiated the event by planting a *Karanja* sapling in the NSS Park. Manju Singh, the State Liaison Officer, graced the event as the chief guest and planted trees. All statutory officers, university staff, and NSS volunteers attended the event.



❖ "Har Ghar Tiranga and Tiranga" Rally campaign by NSS

The NSS unit of the University organised this campaign and rally on the 13th and 14th of August 2024, during which the national flag was distributed to the faculty members of the University. It was aimed at promoting patriotism and raising awareness about the significance of the national flag. NSS volunteers enthusiastically participated, waving the *Tiranga* and marching with patriotic slogans. Hon'ble Vice-Chancellor Dr. Ashok Kumar Singh emphasised respecting the national flag and remembering those who fought for our freedom. He also encouraged participants to take selfies with the *Tiranga* and share them on social media.



❖ **Kakori Train Action Shatabdi Mahotsav**

NSS unit of Rani Lakshmi Bai Central Agricultural University organised the *Kakori Train Action Shatabdi Mahotsav* on August 17, 2024, with a speech and debate competition among NSS volunteers. NSS volunteers demonstrated their skills by discussing the significance of the *Kakori Train Action* in modern Indian history. Students delivered insightful arguments and engaged in meaningful discussions. The event received positive feedback, underscoring the importance of the *Kakori Train Action* and fostering critical thinking among participants.



❖ **“Swachhata Hi Seva” campaign**

The NSS unit of the University organised the “*Swachhata Hi Seva*” campaign on September 20, 2024.



NSS volunteers conducted a single-use plastic collection drive and a rally in Pal Colony, Jhansi, to raise awareness among residents about the harmful impact of plastic

pollution. The campaign encouraged the community to reduce plastic usage and adopt sustainable practices for a cleaner and healthier environment.

❖ **National Adventure Camp Participation by NSS**

NSS volunteers from the University, Jhansi, participated in the National Adventure Camp organised at the *Atal Bihari Vajpayee* Institute of Mountaineering and Allied Sports, Pong Dam, Himachal Pradesh, from September 25 to October 4 2024. Yumnam Bijilaxmi Devi led the Uttar Pradesh team, with four volunteers from RLBCAU among the 50 participants across India. The camp offers training in activities such as trekking, rafting, sports, and yoga, aimed at developing leadership qualities, fostering social bonding, and enhancing risk-taking abilities in students.

❖ **Distribution of Sprayers and seed storage boxes**

Sprayers and seed storage boxes were distributed among 50 farmers of various villages of Jhansi, Datia and Lalitpur under the ICAR-Indian Agricultural Statistics Research Institute-SCSP Program on October 5 2024. Fifty farmers were given battery-operated sprayers and steel boxes for seed storage for plant protection of pulses and other crops. On this occasion, Vice-Chancellor Dr. Ashok Kumar Singh encouraged and advised them to use this equipment with other village farmers so that the entire village could benefit from its benefits and the plants could also be protected from diseases (**Meenakshi Arya, Jitendra Tiwari, Anshuman Singh and Sanjeev Kumar**).



❖ **One-Day farmers' seminar on “Natural Farming”**

A one-day seminar on Cow-based Natural Farming was organised at the University, Jhansi, on July 6, 2024, with participation from 80 progressive regional farmers. Mr. Kameshwar Singh, State President of Kisan Morcha, encouraged the adoption of cow-based natural farming, highlighting its numerous benefits, including a health-conscious and chemical-free lifestyle. Sharing his experiences, Shri Shyam Bihari Gupta emphasised that agricultural products from this system are high quality and positively impact soil health. Shri Vinod Kumar, who practices natural farming in Jhansi district, discussed his experiences with rocky soil, noting increased income from cow dung gas and *Jeevamrit*. The event also included a tree plantation initiative, where many progressive farmers

practising natural farming shared their insights (S.S. Singh, Shivendra Singh, Sushil Kumar, Sanjeev Kumar).



❖ Training on “Rearing and Management of Indian Major Carp”

The College of Fisheries, Datia, organised three days (01-03 July 2024) of training on the rearing and managing Indian Major Carp (IMCs) fishes for the Bundelkhand Region. This training helped boost the fisheries sector's potential to develop IMC culture in Bundelkhand. Twenty-five farmers from the Jhansi, Datia, Jalaun, and Shivpuri districts participated in this training. Hon. Vice-Chancellor A. K. Singh advised all fish farmers to increase production by adopting the latest fish farming techniques. He also emphasised promoting fish processing and storage facilities in the region. Fish farmers in this area will be provided with good seeds and fish food under this training. Through this type of training, fish farmers in this region will become self-sufficient, and their dependence on other states will also end, allowing customers to get fresh fish. (Neelesh Kumar, Parth Sarathi Tripathi, Tanuj Mishra, Sanjeev Kumar, Girija Behere, Sudhanshu Raman, and Ganesh Kumar T).



❖ Training programme on "Sustainable Shrimp Farming and Aquaculture of Diversified Species"

Marine Products Export Development Authority (MPEDA), Regional Division Mumbai, MoCI, GoI in association with CoF, RLBCAU, Jhansi conducted a five-day Training Programme for twenty Scheduled Caste beneficiaries from Datia district of MP. at Jhansi from 23 to 27, September 2024. During the inaugural programme, S. S. Singh highlighted the need for aquaculture as a source for livelihood and income in the Bundelkhand region. A field

trip of farmers to Recirculatory Aquaculture System (RAS) unit was also organised as a part of this training programme to Karera, Madhya Pradesh (Girija Behere, Mangesh Gawade, Abhishek Srivastava, Anuj Tyagi, Sudhanshu Raman, Tanuj Misra, Neelesh Kumar, Partha Sarathi Tripathy, Ganesh Kumar).



❖ Training programme on "Biosecurity and Personal Hygiene in Fish Farms and Hatcheries"

Under the joint aegis of MPEDA, Regional Division Mumbai, and RLBCAU, Jhansi, a capacity-building training program on Biosecurity and personal hygiene in fish farms and hatcheries was organised at the Datia campus on September 28, 2024, with participation from 31 Scheduled Caste farmers from Madhya Pradesh. Dr. Ashok Kumar Singh, Vice-Chancellor of RLBCAU, inaugurated the event. During his presidential address, Dr. A. K. Singh emphasised the importance of following Biosecurity and personal hygiene practices to maintain an effective cold chain and ensure the quality of fish. He encouraged all agricultural farmers to construct pond tanks to generate additional income and improve their economic conditions. The training program also highlighted opportunities in fisheries. Each trainee received a plastic crate and a T-shirt from the Vice-Chancellor. (Girija Behere, Mangesh Gawade, Abhishek Srivastava, Anuj Tyagi, Sudhanshu Raman, Tanuj Misra, Neelesh Kumar, Partha Sarathi Tripathy, Ganesh Kumar).



❖ Training on "Preparation for Rabi Crops"

Two-days training was organised at the University Campus under the Sub Mission on Agriculture Extension "ATMA" scheme from 23-24th September 2024. The training was

centred on increasing the production of *Rabi* crops. Thirty-five farmers of Jalaun district, including 12 farm women, also participated in this training. With the cooperation of *Asha Grammothan Sansthan*, these farmers mainly discussed topics like *Rabi* pulses, wheat, mustard, protected cultivation, mushroom cultivation, strawberry, etc. These farmers also visited fruit orchards and crop farms. (Sanjeev Kumar).



❖ Training program on "Commercial Goat Farming"

The four-day training program was organised from September 3-6 at the CoVAS, Datia, focusing on improving the livelihoods of farmers, entrepreneurs, youth and women. Hon'ble Vice-Chancellor Dr. Ashok Kumar Singh, the chief guest, highlighted the potential of high-breed goat rearing to enhance farmers' livelihoods. Goat rearing offers excellent entrepreneurial opportunities, requiring minimal capital and space. He also noted that the opening of the veterinary college and hospital would contribute to the social and economic development of the region by providing accessible animal healthcare services. G. Das, Additional Director of Animal Husbandry, Datia, outlined various government schemes available to goat farmers. Over 50 farmers from 1f Datia and Jhansi district villages t participated in this training. Farmers were given detailed information on goat rearing, milk production, meat etc. This was the first program of its kind held at the Datia campus. In the closing session, Rajiv Saxena, Additional Director of the Animal Husbandry Department, Jhansi, discussed central and state government schemes and responded to farmers queries (College of Veterinary and Animal Science, Datia, C. S. Patil, Vinod Kumar, Deepak Upadhyay, Manvendra Singh, P. K. Soni, Gaurav Kumar, Nripendra Singh, Divyanshu Tomar and Ankita Rautela).



❖ Training program on "Seed Production Technology for Wheat, Mustard and Pea for FPOs"

Three Days Training program on "Seed Production Technology for Wheat, Mustard and Pea for Farmer Producer Organizations, Jhansi" was organised from 28, September 30 and October 1 2024. This training aimed to promote agricultural productivity and make farmers self-reliant by empowering them with technical knowledge of seed production. Vice-Chancellor Dr. Ashok Kumar Singh called upon the farmers to move toward self-reliance. He said that the technical expertise of seed production will help increase farmers' income and ensure the agricultural sector's prosperity. Thirty Amarokh Arth Bio Energy FPO farmers and twenty farmers of *Bundeli Nature FPO* participated in this training. Farmers of both the FPOs learned advanced techniques of seed production for *rabi* crop (Ashish Kumar Gupta, Shailendra Kumar, Sanjeev Kumar, Arpit Suryawanshi).



❖ Training on "Improved Techniques of Agroforestry"

Three-days training program on "Improved Techniques of Agroforestry " was organized at Village- Ronija, Block-Badagaon, District-Jhansi, from September 05 to 07, 2024 aimed at promoting Agroforestry and enhancing farmers' income. A total of 35 farmers participated in the training. Farmers were benefitted regarding integration of agroforestry, tree planting, vertical farming and maintenance, industrial potential and better income with agroforestry techniques in their current farming practices along with addressing the challenges in recent cropping pattern through this training program (Prabhat Tiwari, Pavan Kumar, Garima Gupta, Mihir Ranjan Panda and Anusuiya Panda).



❖ Mahoba district farmer's exposure visit

Under the "Rapid Maize Development Scheme" sponsored by the agriculture department, fourteen farmers from Mahoba district visited RLBCAU Jhansi. Farmers-scientist interaction meetings were organised. Different production

practices of maize crops, viz. soil management, selection of seed variety, improved irrigation practices, nutrient management, weed management, insect pest and disease management, etc., were emphasised. The University's social media and digital interventions, such as *Krishi Vani's* Whatsapp group and RLBCAU YouTube channel, were demonstrated and discussed. (Sanjeev Kumar, Arpit Suryavanshi, Anil Kumar Rai).



❖ Lalitpur district farmer's exposure visit on Millet

Under the Uttar Pradesh *Shri Anna* Revival Program, about 50 farmers from 6 blocks of Lalitpur district visited the university technology cafeteria and gathered insight into millet production and processing for income enhancement. They also visited the research and demonstration farm trails of *Shri Anna* crops (Sawa). Farmers were made aware of agricultural education, research and extension of the University along with the University's social media and YouTube initiatives (Sanjeev Kumar, Shailendra Kumar, Ghanshyam Abrol).



❖ Farmers training-cum-field day on millets

A three-day farmers training-cum-field Day was organised on "Production Technology of millets in Bundelkhand" on 28, September 30 & October 1. Training was organised on 28 at Khajraha Bujurg and Sarva villages of Babina, on 30 at Bangra, Jhansi and on October 1 at Bhadarvara, Mauranipur, Jhansi. More than 150 farmers participated in these training programs. A total of 113 FLD were conducted at these villages.

❖ Exposure Visit by Jalaun district farmers

Fifty farmers visited the University under "Submission on Agricultural Extension" on August 24 2024. ATMA, Department of Agriculture, Jalaun district in collaboration with *Asha Gramothan Sansthan*, sponsored this farmer's exposure visit. During this exposure visit, farmers gained

technical knowledge on production practices of major kharif crops, fruit and dragon fruit models, and vemi-compost units. Farmers were also provided with the extension literature related to these demonstrations (Sanjeev Kumar, Arpit Suryavanshi and Ram Kumar)



❖ Farmer's training on Mungbean

Three days Off-campus training on "Advanced technologies in mungbean production in Bundelkhand region" was organised in 3 villages viz. Ramgarh, Amanpura, and Magarpur of the Jhansi district on 28, September 30 and October 1, 2024, where 100 farmers participated, followed by scientist-farmer interaction over the practical field-oriented queries. (Anshuman Singh, Jitendra Tiwari, Meenakshi Arya, ShivVendra Singh)



❖ Farmer training on Urdbean

"Advanced technologies in urdbean production in Bundelkhand region" under FLD-Urdbean during 21-23 September 2024: Under FLD-Urd bean, gave a lecture to farmers on September 23 2024 at Magapur village, Jhansi under 3 days farmer training programme on organised in 3 villages viz. Khaikhera, Lalitpur; Palinda, Jhansi. (Jitendra Tiwari, Anshuman Singh, , Meenakshi Arya)



❖ Residential training on "Honeybee Keeping"

The residential training on honeybee keeping was organised from 23-25 September 2024 at RLBCAU, Jhansi campus, funded by RKVY, U. P. Under this training programme, 50 farmers from the Jhansi, Lalitpur, and Shivpuri districts participated. Experts delivered lectures on different topics of Beekeeping, such as identification of different species of honey bees, apiary site selection, bee flora, inspection of bee colonies, artificial feeding bees, controlling, swarming, hive inspection, knowledge about beekeeping equipment and their uses, etc. (Yogendra Kumar Mishra, Akhilesh Kumar Singh and Usha).



❖ Farmer training on "Summer Tomato"

3 days of training on "Summer Tomato" was organised from In this training, 30 farmers participated from Jhansi district. Protected cultivation of tomatoes, improved varieties, agronomic practices, nutrient management, and nursery management were the main focus of this training. Certificates were also given to the trainees.



❖ Front Line Demonstration-Fisheries

The College of Fisheries, RLBCAU, Jhansi organised a demonstration on July 32024, for the scheduled caste section of farmers. In this FLD programme, the college faculty distributed fish seed and feed in the presence of Honorable Vice-Chancellor Ashok Kumar Singh. Under this FLD programme, 5000 fingerlings and three quintals of fish feed were provided to the 20 farmers from Jhansi, Datia, Jalaun and Shivpuri districts. (Neelesh Kumar, Parth Sarathi Tripathi, Tanuj Mishra, Sanjeev Kumar, Girija Behere, Sudhanshu Raman, Ganesh Kumar T).



❖ FLDs-Animal Husbandry

On August 28, 2024, the College of Veterinary and Animal Sciences, under the SCSP-IARI-IASRI initiative, held a FLDs program in Salaiya Pamar, Datia, Madhya Pradesh, aimed at supporting local animal farmers. As part of the program, mineral mixtures, calcium and vitamin supplements were distributed to farmers to enhance the health and productivity of their livestock. During the event, scientists from various disciplines explained the critical roles that macro and micro minerals, calcium and vitamin supplements play in sustaining vital metabolic processes. The experts provided a comprehensive overview of the management of animals, emphasising proper housing, feeding, and disease prevention practices. This hands-on approach empowered the farmers with practical knowledge to improve the well-being and productivity of their animals. (College of Veterinary and Animal Science, Datia, C. S. Patil, Vinod Kumar Singh, Deepak Upadhyaya, P. K. Soni, Gaurav Kumar, Sushmita Nautiyal and Nripendra Pratap).



❖ FLD-Mungbean

Under the SCSP Quality Seed Project for Kharif 2024, Mungbean seed of Virat variety (6 kg for 1 acre) was distributed to around 360 farmers among S.C. communities under the SCSP Quality seed project of 27 villages of Jhansi district and five villages of Niwari district during June and July months. Also, 15 Kg mung bean of Virat variety was distributed for 1 ha in villages of the Jhansi district. The crop performance and stand were good, and the farmers reported a negligible incidence of MYMV disease using the Virat variety. Farmers were encouraged to grow mungbean crops as one pulse crop in the crop rotation in a year, and also they would get higher prices in the market due to the high MSP of Rs 8,558/- per quintal through the high-yielding mungbean variety of Virat.

❖ FLDs-Groundnut

In total, 105 groundnut demonstrations were conducted on groundnut crops under different schemes such as SCSP ICAR-IIPR Kanpur, AICRP- ICAR-DGR, Junagadh and University. These demonstrations were organised at various villages in the Jhansi district, covering packaging technology, seed treatment, fertilisers, and herbicides. Groundnut variety viz. K1812, T.G. 37 A, and TAG 73 were given to the farmers during these demonstrations. **(Rakesh Choudhary, Jitendra Kumar Tiwari, Sharwan Shukla, Ashutosh Sharma, Usha, Anita Puyam and Shivendra Singh)**

❖ FLDs -Soybean (ICAR-IISR, Indore)

Ten front-line demonstrations were conducted on soybeans using soybean varieties NRC130 and JS-20-69 in Jhansi and Sanora village of Datia (Madhya Pradesh). The university organised soybean demonstrations for the first time among the farmers. It includes technological intervention such as ridge sowing to save crops from water logging and new crop variety. **(Rakesh Choudhary, Ashutosh Sharma, Shiv Vendra Singh, Anil Kumar Rai).**



❖ FLD-Aerobic rice

Seeds of about 100 kg of aerobic rice (DRR Dhan 58 having low glycemic acid) were distributed to 12 Beheta and Ari village farmers on July 11, 2024, under the University FLD scheme. Two sprays of Seaweed extract and pre-emergence and post-emergence herbicides were also distributed to farmers of these villages to increase their productivity by adopting new proper practices of growing aerobic rice in Bundelkhand region **(Gunjan Guleria, Y Bijilaxmi Devi, Alka Jain, Prince Kumar, Kuleshwar Prasad Sahu).**



❖ FLD-Vegetable Crops

For the promotion of *Kharif* onion cultivation in Bundelkhand region, 100 Kg of onion seeds were distributed to the 100 farmers of Datia, Jhansi, Lalitpur districts under SPSC-ICAR Doctor Plant Project of FLD programme. Under this 100 FLDs of Okra, 50 FLDs of tomato, 100 FLDs cluster bean, 50 FLDs of cow pea, 10 FLDs of colocasia and 20 FLDs of elephant foot yam were distributed under University funded FLD programme **(Arjun Lal Ola, Brij Bihari Sharma, R.K. Singh & Saurabh Singh).**



❖ Establishment of Agroforestry System

Ronija village, Block-Badagaon, District-Jhansi was adopted to develop industrial agroforestry model under FLD on Agroforestry by funded by the University. The objective is to develop sustainable agroforestry systems that integrate trees into agricultural landscapes, enhancing both ecological balance and additional economic benefits to farmers and self-sustained in industrial wood production. Based on the consideration of local environmental conditions, soil health, and compatibility with existing crops three fast-growing species viz. *Neolamarckia cadamba*, *Meliadubia* and *Gmelinaarborea*, are promoted for plantation at a Spacing of 5×5 m², 2×3 m², 4×5 m², 8×8 m² along with boundary plantation. This initiative showcases a collaborative approach towards sustainable agroforestry, where scientific expertise, combined with farmer participation, contributes to a resilient and productive farming system that benefits both the environment and the rural economy. **(Prabhat Tiwari, Pavan Kumar, Garima Gupta, MihirRanjan Panda and Anusuiya Panda).**



Farmers Advisories

क्र. सं	सलाह	वैज्ञानिक
जुलाई - 2024		
1.	खरीफ मौसम में समय से करे मूंग की बुआई	मनोज कुमार सिंह एवं अंशुमान सिंह
2.	एरोबिक धान की खेती से पानी बचाएं एवं मिटटी स्वस्थ बनायें	गुंजन गुलेरिया एवं योगेश्वर सिंह
3.	मध्य जुलाई तक करे उड़द की बुवाई	मनोज कुमार सिंह एवं जितेन्द्र कुमार
4.	किसान कराएँ खरीफ फसलों का बीमा	प्रिंस कुमार सोम एवं श्रीधर पाटिल
5.	बारिश के मौसम में बिजली से रहें सावधान	अनिल कुमार राय एवं योगेश्वर सिंह
6.	मालाबार नीम लगाकर आय बढ़ाएं किसान	प्रभात तिवारी एवं मनमोहन डोवरियाल
7.	औषधीय पौध शतावरी से खेत सुरक्षा एवं अतिरिक्त लाभ	पंकज लवानिया एवं मनमोहन डोवरियाल
8.	कीटनाशी दवाओं का प्रयोग करते समय बरतें सावधानियां	सुन्दर पाल एवं अखिलेश कुमार सिंह
9.	सोयाबीन की फसल में खरपतवार प्रबंधन	अनिल कुमार राय एवं योगेश्वर सिंह
10.	समय से करे लोबिया की बुवाई	अर्जुन लाल ओला, राजेश कुमार सिंह
11.	मूंगफली में करे खरपतवार नियंत्रण	राजीव नंदन एवं गुंजन गुलेरिया
12.	मूंगफली फसल की वर्षा ऋतु में सफेद लट कीट से करे सुरक्षा	सुंदरपाल पाल एवं अखिलेश कुमार सिंह
13.	जीवामृत से खरीफ फसलों की बढ़ाएँ उपज	अनिल कुमार राय एवं योगेश्वर सिंह
14.	पशुओं में जूनोटिक रोगों की रोकथाम एवं नियंत्रण	वीपी सिंह एवं विनोद कुमार
अगस्त - 2024		
1.	नीम आधारित जैविक कीटनाशकों का फसलों में करे प्रयोग	अनिल कुमार राय एवं योगेश्वर सिंह
2.	मक्का की फसल को फॉल आर्मी वर्म कीट के प्रकोप से बचाएं	योगेन्द्र मिश्रा एवं सुंदर पाल
3.	खरीफ दलहनी फसलों में खरपतवार नियंत्रण	अनिल कुमार राय एवं योगेश्वर सिंह
4.	मक्के की फसल में खरपतवार प्रबंधन	संदीप उपाध्याय एवं वैभव सिंह
5.	अमरूद को फल मक्खी के प्रकोप से बचाएं	ऊषा एवं अखिलेश कुमार सिंह
6.	बरसात के मौसम में पशुओं की करे देखभाल	नृपेन्द्र सिंह एवं दिव्यांशु सिंह तोमर
7.	जलभराव से खरीफ फसलों को बचाएं	अनिल कुमार राय एवं योगेश्वर सिंह
8.	सफेद चंदन की बुंदेलखण्ड में संभावनाएं	पंकज लवानिया एवं पवन कुमार
9.	बुंदेलखण्ड में प्याज की अपार संभावनाएं	राजेश कुमार सिंह, मनीष श्रीवास्तव
सितम्बर - 2024		
1.	सजावटी पौधों की कटिंग द्वारा नर्सरी तैयार करने हेतु उपयुक्त समय	प्रियंका शर्मा एवं गौरव शर्मा
2.	परती एवं खाली खेतों में करे तोरिया की खेती	अनिल कुमार राय एवं योगेश्वर सिंह
3.	बुन्देलखण्ड में गुलदाउदी फूल की खेती	प्रियंका शर्मा एवं गौरव शर्मा
4.	मछली पालक पानी की गहराई का रखें ध्यान	अनुज त्यागी, अभिषेक श्रीवास्तव
5.	समय से करे मक्के में नत्रजन का प्रयोग	संदीप उपाध्याय एवं सुशील सिंह
6.	जल भराव से खरीफ फसलों में होने वाले रोग	शुभा त्रिवेदी एवं पी पी जाम्भलकर
7.	ककोरा की खेती कर अधिक लाभ कमाएं	ब्रजबिहारी शर्मा एवं आर के सिंह
8.	जलभराव की स्थिति में उड़द एवं मूंग की फसल को बचाएं	अनिल कुमार राय एवं योगेश्वर सिंह
9.	तिल को बालदार इल्ली कीट से करे सुरक्षा	योगेन्द्र कुमार मिश्रा एवं ऊषा
10.	जंगली सूअर से मूंगफली की फसल को बचाएं	मनोज कुमार सिंह एवं जितेन्द्र कुमार तिवारी

Radio Talk

विषय	विशेषज्ञ	दिनांक
खरीफ की फसलों में खरपतवार प्रबंधन	गुंजन गुलेरिया	6th August, 2024

TV Talk

SN.	Topic	Expert	Date/Channel
1.	"Which crops will be damaged by the September rains."	Amit Kumar Singh	Kisan Tak channel- 04 th September
2.	Early Vegetable Pea Production	Brij Bihari Sharma	Hello Kisan Live-DD Kisan 02/09/2024

Research Papers Published

- ❖ Girija Saurabh Behere, Tanuj Misra, Sudhanshu Raman, Ganesh Kumar, Anuj Tyagi, and Abhishek Srivastava, 2024. R Package Software "Fish Prox Comp Analyzer" (Under Prototype) developed for Proximate Analysis of Fish, Shellfish, Fish Products, Feed & Feed Ingredients. Comprehensive R Archive Network (CRAN).
- ❖ Abhinesh Kumar, Chandra Pal Singh, Ambrish Singh, Radhakrishnan K.V., Jyoti Saroj, Dinesh Kumar, Neelesh Kumar (2024). Assessment of fish diversity and hydrobiological parameters of holy river Saryu at Ayodhya Uttar Pradesh. *AMA, Agricultural Mechanization in Asia, Africa and Latin America* 55 (07), 18321-18340.
- ❖ Ganesh Kumar, Tanuj Misra, Girija Saurabh Behere, Sudhanshu Raman, Anuj Tyagi, and Abhishek Srivastava, 2024. R Package Software "AquaAnalytix," (Under Prototype) an advanced R package (under prototype) designed for the comprehensive analysis of aquatic physicochemical dynamics. Comprehensive R Archive Network (CRAN).
- ❖ Prashant Jambhulkar, Ruchira Bajpai, J. Harish, Partha Sarathi Tripathy, Ajaya Kumar Rout, Priyanka Varun, Bijay Kumar Behera, Dilip Kumar Lakshman, Mallikarjuna N 2024. Assessment of Genetic Diversity and the Population Structure of Species from the *Fusarium fujikuroi* Species Complex Causing Fusarium Stalk Rot of Maize. *Journal of Fungi*, 10, 574.
- ❖ Partha Sarathi Tripathy, Soumya Shephalika Dash, Ningthoujam Chaoba Devi, Sagar Chandra Mandal, Pramod Kumar Pandey, Janmejay Parhi, Bijay Kumar Behera, Ananya Khatei, 2024. Unveiling the molecular mechanisms of pigmentation control in Queen Loach, *Botiadarario* (Hamilton, 1822): Insights from sesame seed and marigold-induced antityrosinase effects. *Journal of Animal Physiology and Animal Nutrition*, 108, 1453–1467.
- ❖ Kumar, Amit, Anshuman Singh, Meenakshi Arya, A. Nishant Bhanu, Vishnu Kumar, and S.K. Chaturvedi, 2024. "Study of Genetic Variability and Character Association for Yield and Component Traits in Chickpea (*Cicer arietinum* L.) Germplasm in Bundlkhand Region". *Journal of Experiment Agriculture International* 46(8) 628-39. 101 (NAAS: 5.14).
- ❖ Sajeev, A. M., Devi, Y. B., Yadav, R., Kale, A., & Meetei, T. T. 2024 Study on Effect of Neem-based Agroforestry System on Different Leguminous Crops and its Impact on Nitrogen Availability in Soil and Nodulation. *Annals of Biology* 40(1):96-101 (NAAS: 4.68).
- ❖ Nikhil, A. D. S. S., Choudhary, R., Singh, A., Trivedi, S., Gupta, K., Yadav, V. K. and Chaturvedi, S. K. (2024). Phenotypic screening of Indian mustard genotypes against white rust (*Albugo candida*) under artificial and natural epiphytotic conditions. *Journal of Oilseed Brassica*, 15 (2): 216-224. (NAAS: 4.78).
- ❖ Singh, A., Choudhary, R., Gupta, K., Singh, A., Gupta, K., Devi, T. B., Chaturvedi, S. K., Yadav, V. K. (2024). Assessment of terminal heat tolerance ability of Indian

mustard genotypes based on morpho-physiological traits. *Journal of Oilseed Brassica*, 15 (2): 232-239. (NAAS: 4.78).

- ❖ Choudhary, G., Dwivedi, K. K., Dwivedi, L. K., Priyadarshini, P., Kaushal, P., Choudhary, R., Rana, M., Anuragi, H., Batham, A. (2024). Expression Profiling of MSP1 Gene Involved in Mega-gametophyte Development in Ploidy Series of Guinea Grass (*Panicum maximum* Jacq.). *Journal of Advances in Biology & Biotechnology*, 27(7): 335-362. (NAAS: 5.30)
- ❖ Kaur, V., Payasi, D.K., Choudhary, R. et al. Genetic resources for enhancing drought tolerance from National Genebank collection of linseed (*Linum usitatissimum* L.) in India. *Plant Soil* (2024) (NAAS: 10.90).
- ❖ Jain, A. Predator-Prey Relationship in the Patriarchal World: A Metaphorical Analysis of Mahesh Dattani's "30 Days in September"

Invited Lectures

- ❖ Girija Saurabh Behere participated as an Expert Trainer and Evaluator in two Seafood Value Addition Training Programmes under PMMSY for seafood units in Maharashtra by the MPEDA, RDM, on 5th and 6th September 2024 at Rizwan Ice and Cold Storage Unit, Taloja, Navi Mumbai for 100 trainees.
- ❖ Tanuj Misra delivered a lecture on "Object Detection and Classification Using CNN (Convolutional Neural Network)" on July 9, 2024, as part of the online training program on "Computer Vision in Fisheries Using Machine Learning," organised by ICAR-CIFE, Mumbai.
- ❖ Dr. Neelesh Kumar delivered an online lecture on "Culture and Management of Indian Major Carps", organised by Khetivalah on August 31, 2024.
- ❖ Dr. Sudhanshu Raman delivered a lecture and demonstrated Biofloc fish farming technique as an invited expert in a three-day training programme on "Biofloc technology" organised by NFDB, Hyderabad from 24th to 26th September 2024.

Meetings/Visits/ Training

- ❖ Anuj Tyagi participated in the Dean's Conference on "Implementation of NEP Policy 2020 & Promotion of Student Entrepreneurship under NAHEP-CAAST" organised by ICAR-CIFE on August 6, 2024.
- ❖ S S Singh, D V Singh, S.K.Verma, D.S. Solanki and G. K. Sharma participated in a two-day National Workshop on the CS Scheme on 22-23 August 2024 at Prof. Jayashankar Telangana State Agriculture University (PJTSAU), Telangana.



- ❖ Anshuman Singh attended the 29th Annual Group Meet on Rabi Pulses from September 2-4, 2024, organised by ICAR-IIPR, Kanpur, and ICARDA held at Amlaha, Sehore, M.P.
- ❖ Yogendra Kumar Mishra participated in 21 days training program on "Production protocol for Bio-control agents (Predators, parasitoids, Microbial, Biopesticides and Biofertilizers)" from July 18, 2024, to August 7, 2024 at NIPHM, Hyderabad.
- ❖ Yumnam Bijilaxmi Devi attended an online short course on "Agronomic research for food security and environmental stewardship in changing scenarios" on June 20-29, 2024, organised by the ISA, New Delhi.
- ❖ Yumnam Bijilaxmi Devi attended the national level NSS Adventure Camp as Team Leader of the UP Team from September 25 to October 4, 2024, at Regional Water Sports Complex, Pong Dam, Himachal Pradesh.
- ❖ Yumnam Bijilaxmi Devi attended 'चतुर्थ अखिल भारतीय हिन्दी सम्मेलन' on 14th and 15th Sept 2024 at Bharat Mandapam, New Delhi.
- ❖ Alka Jain presented the paper, "Through the Annals of History: Historical Trends, Literary Explorations, and Contemporary Perspectives on Dark Tourism in Europe" in the 3-Day ICSSR supported International Conference on Dark Tourism organized by Midnapore College between 14-16 September, 2024.

Visitors at Crop Improvement Laboratory:

- ❖ Dr. A.K. Singh, Former Director of ICAR, IARI, New Delhi, visited the crop improvement lab (Dept. GPB) on September 4 2024. Dr. Singh shared his valuable research insights, significantly enhancing our understanding of crop improvement strategies. His expertise provided us with new perspectives and inspired our ongoing research efforts.
- ❖ Dr. Masood Ali, Farmer Director IIPR, Kanpur, visited the crop improvement lab (Dept. GPB) on September 18 2024. He shared extensive experiences with various crop improvement programs, particularly emphasizing millets and linseed.
- ❖ Dr. Sudhakar Pandey, ADG, ICAR New Delhi and Dr. J.S. Chauhan, Former ADG, ICAR, New Delhi, visited the crop improvement lab on September 20 2024. Their insights into the latest agricultural research and crop genetics developments were incredibly inspiring. (Department of Genetics and Plant Breeding)

