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BANDA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

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From Vice Chancellor's Desk

Sustainable agricultural growth can only be achieved with significant technological interventions for increasing the productivity of agricultural commodities. Banda University of Agriculture & Technology is working on the same line with minimum resources to increase the crop production, while minimizing environmental impact for sustainability and maximizing the income of marginal and small farmers of Bundelkhand region. The agricultural technologies need a shift from production oriented to profit oriented sustainable farming. Kisan Pragati, Jaivik Corridor, Seed hub and various other programmes are coordinating by the university to uplift the rural economy. I am delighted to share the achievements of the university during this quarter. The university is doing commendable job in research sector by providing the valuable germplasm of oilseed, pulses and vegetable crops. However, more focus is required to develop and promote those technologies that raise agricultural income, ensures employment opportunities and sustainability of production systems. The new academic session starts from this quarter and I am happy to share that the strength of students has been increased from previous sessions and the students admitted this time in the university have come from various states. The students are doing excel in the national and state level competitions in curricular and extra-curricular activities. The different kind of orientation programmes were organized during this quarter. In addition, there has been made attempts to make the university campus clean and green. The university is also shining by its faculty members' high standards in their respective fields.



Dr. U.S. Gautam

प्रमुख गतिविधियाँ

- स्नातक एवं परास्नातक छात्र/छात्राओं का शैक्षणिक सत्र 2019-20 में प्रवेश।
- परास्नातक छात्रों हेतु तकनीकी लेखन में कार्यशाला सम्पन्न हुई।
- विश्वविद्यालय परिसर को स्वच्छ रखने हेतु पौधरोपण अभियान सम्पन्न किया गया।
- शैक्षणिक सत्र 2019-20 में प्रवेशित छात्र/छात्राओं हेतु अनुस्थापन कार्यक्रम आयोजित किया गया।
- गाजर घास उन्मूलन जागरूकता दिवस आयोजित किया गया।
- विश्वविद्यालय के शत-प्रतिशत छात्र-छात्राओं का राज्य एवं केन्द्रीय विश्वविद्यालय में परास्नातक कार्यक्रम में प्रतियोगिता के माध्यम से चयन हुआ।
- सेडा कार्यक्रम के अन्तर्गत विभिन्न फलदार वृक्षों के बगीचों की स्थापना की गयी।
- वानिकी महाविद्यालय की तृतीय बोर्ड आफ स्टडीज का आयोजन किया गया।
- श्री लाखन सिंह राजपूत, माननीय राज्यमंत्री (कृषि, कृषि शिक्षा एवं कृषि शोध), उत्तर प्रदेश सरकार द्वारा विश्वविद्यालय का भ्रमण किया गया।
- अलसी की अखिल भारतीय समन्वित शोध परियोजना के अन्तर्गत विभिन्न पंक्तियों का प्रजाति के विमोचन हेतु चयन किया गया।
- कृषि विज्ञान केन्द्रों के माध्यम से 151 प्रशिक्षण कार्यक्रम, 14 प्रक्षेत्र परीक्षण एवं दलहनी एवं तिलहनी फसलों के अन्तर्गत 236 हे० क्षेत्र में प्रदर्शन आयोजित किया गया।
- किसान प्रगति कार्यक्रम के अन्तर्गत अंगीकृत ग्रामों में वैज्ञानिकों के दल ने खरीफ ऋतु से सम्बन्धित प्रशिक्षण एवं प्रदर्शन कार्यक्रम आयोजित किया।
- संरक्षित खेती के अन्तर्गत पॉली हाउस एवं नेट हाउस में खीरा, टमाटर, शिमला मिर्च एवं चेरी टमाटर की विभिन्न प्रजातियों को प्रदर्शित किया गया।

Admission of UG and PG students

The university has completed admission process of the academic session 2019-20 in different undergraduate and post-graduate degree programme, through UP Combined Agriculture and Technology Entrance Test (UPCATET-2019) conducted by Narendra Dev University of Agriculture & Technology, Kumarganj, Ayodhya and through AIEEA-2019 (All India Entrance Examination for Admission) organized by ICAR, New Delhi. The number of students admitted in different degree programme as under:

Table 1: Strength of students in different degree programme in academic session 2019-20

S. N.	Degree Programme	Number of students admitted		Total of Students
		UPCATET	ICAR	
1	B.Sc. (Hons.) Agriculture	113	13	126
2	B.Sc. (Hons.) Horticulture	111	12	123
3	B.Sc. (Hons.) Forestry	65	-	65
4	B.Sc. (Hons.) Home Science	03	-	03
5	M.Sc. Agriculture	33	-	33
6	M.Sc. Horticulture	18	-	18

Workshop on Technical Writing for PG students

Directorate of Research organized a workshop on "Modus of writing the synopsis, thesis, research papers and citation of references" on 27.07.2019 in Conference Hall, College of Horticulture. Dr. U.S. Gautam, Hon'ble Vice Chancellor presided the workshop. The PG students of all disciplines attended the workshop. The speakers of different disciplines gave detailed presentation on technical writing. The objective of this workshop was to orient the students about synopsis and thesis writing.

Plantation Drive

A mega plantation drive was organized in the university campus during 'Van Mahotsava Maah'. Dr. Mohammed Nasir, Assistant Professor, CoF organized *Avenue Plantation* programme at BUAT, Banda on 9th August 2019. Programme was inaugurated by Hon'ble VC and planted the tree saplings at different sites. Mega



plantation drive of the species viz., *Delonix regia*, *Ficus tinctoria*, *Anthocephalus kadamba*, *Cassia siamea* and *Albizia* spp. were planted. Besides, plantation drive was continued during the entire 'Van Mahotsava Maah'. Dr. B.S. Rajpoot and Dr. Dinesh Gupta, Assistant Professors, CoF also carried out Teak plantation programme in the premises of Teacher's Hostel and along boundary wall of BUAT as on 24th to 31st August, 2019. All the senior officials, faculty members of different departments and students of all the four colleges participated in mega event and planted several saplings throughout the university campus.



Celebration of Independence Day

The 73rd Independence Day was celebrated with intense patriotic fervor in the university. On this occasion, Hon'ble Vice Chancellor hoisted the flag and addressed the gathering. He highlighted the achievements of the university during recent past. He impelled to the faculty and students to make the farmers of Bundelkhand region



self-reliant. He also thrust upon to speed up seed production programme. He asked that a number of development programmes would have been launched in near future.

Orientation programme for UG and PG students of Batch-2019

Orientation programme for the newly admitted students of batch 2019 in undergraduate and post-graduate degree programme of College of Agriculture and College of Horticulture and undergraduate degree programme of College of Forestry and College of Home Science was organized during 21st - 24th August, 2019 at college level. The students were formally welcomed and introduced to



the campus, college and university. Hon'ble Vice Chancellor Dr. U. S. Gautam addressed the gathering and motivated the students and asked to excel in their academics. He pointed out the characters of a scholar and asked the students to develop high moral values by retaining those characters. The programme was aimed to imbibe a sense of commitment and responsibility among the students. The Registrar, Dean and other authoritative bodies discussed about the university, college, academic regulations, courses' structure, examination patterns, library rules, students' welfare programmes, hostel rules, etc. through detailed presentations in this programme. The newly admitted students were also familiarized with the teaching and non-teaching staff members of the university.

Parthenium Awareness Day celebration by NSS volunteers

Parthenium Awareness Day was celebrated by the NSS volunteers on 21st August, 2019. On this occasion, Dr.



Dinesh Sah, Associate Professor and project coordinator, AICRP on Weed Management delivered a talk on Parthenium weed to the NSS volunteers. Dr. Sanjeev Kumar, Associate Dean, CoF addressed the NSS volunteers about the exotic weed problems associated with the forest lands. He called upon the students to make the campus free from this obnoxious weed. Dr. Chandrakant Tiwari, Dr. Dinesh Gupta and Dr. J. K. Tiwari also motivated the NSS volunteers to eradicate the parthenium and contribute to make a healthy society.

Students Achievements

First time our four students have got the admission in Master's programme through JRF at IARI, New Delhi; Dr.



RPCAU, Samastipur; GBPUAT, Pantnagar and OUAT, Bhubneshwar. Besides, other students have also got the admission in PG programme at SAUs and CAUs after qualifying the national and state level competitions.

Mr. Rishabh Tripathi, student of B.Sc. (Hons.) Agriculture and Ms. Shambhavi Awasthi, student of B.Sc. (Hons.) Forestry participated in District Level Debate Competition conducted by Amar Ujala Group. Ms. Shambhavi Awasthi got 3rd position in that competition. She was also nominated to zonal level competition. Ms. Sambhavi Awasthi got 4th position in Zonal Level debate competition held at Arya Kanya Inter College, Banda on 28th August, 2019. This competition was open to all the academic institutions.

National Sports Day

The National Sports Day was celebrated on the occasion of birthday of Major Dhyan Chand on 29th August, 2019. Hon'ble Vice Chancellor casted light on the legendary figure Major Dhyan Chand and importance of games. During this occasion, 5 km race was organized based on theme 'RUN BUAT'. The winners were awarded with



prizes and certificates. This programme was aimed to deliver a message to be fit and healthy. Hon'ble VC asked the students to play game daily for a while as per the interest. He also encouraged the students to participate in National level sports competition.

Development of Fruit Orchard under CEDA

Different fruit plants/planting material procured by Department of Fruit Science, College of Horticulture from different institutions of Ganganagar, Jodhpur, Abohar, Nagpur, Godhara, Pantnagar etc. to establish orchards of different fruits in the university campus. Field preparation, layout and plantation of different



fruits like pomegranate, ber, bael, aonla, mahua, khirni, date palm, jackfruit, mango, jamun, tamarind, acid lime, kinnow and dragon fruit has been carried out by Dr. A. K. Srivastava, Dr. Om Prakash and Dr. Nidhika Thakur in 8.5 ha. area of CEDA block. The procured planting material has also been planted in other sites such as instructional orchard and near College of Home Science.

Meeting of Board of Studies (BoS)

The 3rd Meeting of BoS of College of Forestry was held on 07.09.2019 under the chairmanship of Dr. Sanjeev



Kumar, Associate Dean, College of Forestry at Committee Hall, CoF. The meeting started with the welcome address and a presentation by the Chairman about the college. Altogether, 16 agenda were discussed during the meeting and same has been recommended to the Academic Council, BUAT, Banda by the board members. Fruitful discussions held on each agenda.

World Ozone Day

International Ozone day was organized by College of Forestry on 16.09.2019. The event was inaugurated by the chief guest Hon'ble Vice Chancellor Dr. U.S. Gautam.



An exhibition gallery was presented by the students on this occasion. The chief guest observed the models and posters made by the students and appreciated the efforts. He addressed to the students about the importance of ozone layer. This utmost important layer saves us from harmful ultraviolet radiation. Dr. U.S. Gautam asked everyone to stop using ozone depleting substances and save our planet earth. All the senior officials of the college and the university were present during the event.

Hon'ble Minister Visit

Mr. Lakhan Singh Rajpoot, Hon'ble Minister of State (Agriculture, Agriculture Education and Agriculture Research, Government of U.P.) visited the university campus, departmental laboratories and interacted with faculty members and students on 17.09.2019. Hon'ble



Vice Chancellor felicitated the Hon'ble Minister during his first visit to the university campus. A brief presentation was given by Dr. B. K. Singh, Director (Administration & Monitoring) about the achievements and constraints. Hon'ble Minister applauded the officials for their achievements and assured to the Hon'ble Vice Chancellor for a better prospects of the university.

Research Activities

Under AICRP on Linseed Project implemented at Crop Research Farm, Mauranipur, three improved lines of linseed viz, LMS-2013-22, LMS-2013-29 & LMS-2014-177 have been identified for release for irrigated conditions and two lines viz, LMS-2012-42 & LMS-2014-103 for rainfed condition during Annual Meeting of U.P. State Replicated Trials Programme on 13.09.2019. At present one trial under AICRP on Arid Legumes, three trials on AINP (Onion and Garlic) and two trials under Gharda Chemical Project are going on. Seed production of turmeric variety NDH-1 and nucleus seed production of sponge gourd var. BUAT SG 18-1 has been done under MIDH sponsored project. Crop cafeteria for Kharif season crops has been developed. Front Line Demonstration of Kharif onion var. L-48 was carried out by Dr. R.K. Singh, Associate Professor, Department of Vegetable Science with 50 beneficiaries to popularize Kharif onion in Bundelkhand region. The civil works at Crop Research Farm, Gursarai was inaugurated by Hon'ble Vice Chancellor on 12.09.2019. On this occasion, a Kisan Gosthi on "Til Diwas" was organized at CRF, Gursarai in the gracious presence of Hon'ble Vice Chancellor on the same day.

Collection of Bio-control fungi from Banda

Some fungi have promising bio control potential of *Rhizoctonia solani* (causal organism of various diseases) were collected from soils of Banda by Dr. Dharmendra Kumar, Associate Professor, Department of Plant Pathology. These fungi were identified as *Arthrobotrys oligospora*, *Arthrobotrys cladodes*, and *Dactylaria eudermata*. These fungi were found to parasitize on the hyphae of *R. solani* isolated from various plants.



Conidia and conidiophore of *Arthrobotrys oligospora*



Hyphal parasitism of *Rhizoctonia solani* by *A. oligospora*

Extension Activities

The Krishi Vigyan Kendras of University are working hard for the economical upliftment of farming community of Bundelkhand region through technological inputs. During the report period, the KVKs conducted 137 trainings for 3669 farmers and farm women. Five trainings for rural youth were also organized on different vocations in which 80 youths were participated. Besides, 09 trainings for extension functionaries were also planned and benefitted 285 personnel. Krishi Vigyan Kendras conducted cluster based front line demonstrations on pulses and oil seed crops. During the kharif season 140 ha area were under the pulse crops with 347 beneficiaries while in the oil seed crops sesamum covered 96 ha area with 242 farmers. The heavy and long rainy seasons devastated the demonstrations in almost all the districts of



Bundelkhand. Besides CFLD, KVKs also conducted front line demonstrations on different fields i.e., Horticulture, Home Science and Plant Protection. Nearly 171.25 ha area with 414 participants were undertaken in FLDs. The scientists of KVKs are also working for the improvement of technologies as per the need of local requirements. During the ongoing season 14 OFTs were undertaken for refinement and assessment by the scientists.

The availability of quality seed of pulses to the farmers is a major challenge. Therefore, under the seed hub project, KVKs made a target of almost 1500 q of the production of kharif pulses. The scientists of the KVKs are also producing vegetable seedlings for distribution among farmers of the area. During the report period 138650 number of seedlings of vegetables were distributed. Besides, 4310 plants of different fruit trees were also distributed to the farmers under the fruit plantation programme. Many special programmes e.g., Parthenium eradication, National Animal Disease management, Technological week, Nutritional week and Jal Shakti were undertaken by the KVKs for the benefit of stakeholders. The Scientists are working for the promotion of organic cultivation of field crops through Bundelkhand organic corridor programme. The base line data of associated farmers have been collected for the needful.

Kisan Pragati

Team of scientists of Banda University of Agriculture and Technology, Banda has visited the village Ludhora, Panchnehi, Kanwara, Duredi, Mawai Buzurg during July to September, 2019 to interact with the farmers for transfer of Agricultural knowledge. Scientist has trained the farmers about the seed treatment, use of Bordeaux



mixture for protection of fruit plants, suitable fruit production in Banda, vegetable production, animal health care, drip irrigation, water harvesting, seed

treatment with Rhizobia for nitrogen fixation in legumes etc. These farmer's interaction programme were done under the 100 village programme of BUAT, Banda.

Participation in Meetings/Seminars/Symposia/Workshops:

Sl. No.	Name of Faculty	Meetings/Seminars/Symposia/ Workshops/Talks	Duration	Venue
1	Dr. Aishwarya Maheshwari, Assistant Professor	International Symposium on Tiger and Leopard Conservation	July 26-30, 2019	Northeast Forestry University, Harbin, China
2	Dr. Dharmendra Kumar, Assoc. Professor	Annual Group meet of AICRP- Rapeseed Mustard	August 02, 2019	BAU, Ranchi
3	Dr. Dinesh Gupta	Meeting cum workshop on the issue of <i>Genetically improved planting stock as an important and valuable resources for increasing productivity of Plantation Forest.</i>	August 03, 2019	Forest Research Institute (FRI), Dehradun
4	Dr. Poonam, Assistant Professor	Winter School on Biotic and Abiotic stress tolerance in plants under changing climatic conditions	Aug 06-26, 2019	PAU, Ludhiana
5	Dr. A. C. Mishra, Assoc. Director Research and Dr. R. K. Singh, Assoc. Professor	State Varietal Release Committee Meeting	August 20, 2019	Directorate of Agriculture, Lucknow
6	Dr. Jagannath Pathak, Assoc. Professor	TV talk on <i>Dalhan evam tilhan fasalo me samayikkarya</i>	August 21, 2019	Doordarshan, Lucknow
7	Dr. S.K. Singh, Assoc. Professor & Dr. Hitesh Kumar, Assistant Professor	Annual Group meet of AICRP on Chickpea	August 27-29, 2019	BAU, Ranchi
8	Dr. Jagannath Pathak, Assoc. Professor	Jaivik Corridor Programme	August 28, 2019	Mahoba
9	Dr. Dharmendra Kumar, Assoc. Professor	<i>Bundelkhand me matsaya palan ki sambhavnaye</i>	August 31, 2019	KVK, Banda
10	Er. Sanjay Kumar	Jalshakti Abhiyan	September 07, 2019	KVK Ganiwa Chitrakoot
11	Dr. Sanjeev Kumar, Assoc. Dean (CoF), Dr. Priya Awasthi, Assoc. Dean (CoHSc), Dr. Dinesh Gupta & Dr. Avanish Sharma, Asstt Professors (CoF)	Stakeholders Consultation Meeting under "Scaling out Climate Smart Agriculture for Resilient Farming in India"	September 12-13, 2019	KVK, Banda
12	Dr. A. C. Mishra, Assoc. Director Research, Dr. V. P. Nagaich, P.I., AICRP (Linseed) and Dr. Durga Prasad, Asstt. Director Research	Annual Meeting of U.P. State Replicated Trials Scheme	September 13, 2019	Directorate of Agriculture, Lucknow.
13	Dr. Sanjeev Kumar, Assoc. Dean (CoF) & Dr. Priya Awasthi, Assoc. Dean (CoHSc)	<i>Vrihad Vriksharopan Abhiyan</i> and Farmers Scientist Interaction Programme	September 17, 2019	KVK, Banda
14	Dr. Abhishek Kalia, Assistant Professor	Training of Trainers on Development of Soft Skill & entrepreneurship among Agri graduates	Sept 17-18, 2019	NAARM, Hyderabad
15	Dr. S. V. Dwivedi, Dean, CoH	Jaivik Corridor Goshthi	September 22, 2019	Hamirpur
16	Dr. A.C. Mishra, Assoc. Director Research	State Level Rabi Productivity Workshop-2019	September 23, 2019	Directorate of Agriculture, Lucknow

Off season vegetable cultivation

The protected structures such as natural ventilated poly house, green shade net, insect proof net, mist chamber and hardening chamber constructed under project Center of Excellence in Dryland Agriculture funded by Department of Agriculture Research and Education,



Government of Uttar Pradesh. The parthenocarpic cucumber variety NS-499 was sown on 12th September, 2019. The hybrid varieties of capsicum viz., Natasha (Red type) and Suvarna (Yellow type) and cherry tomato variety Pusa-1 were transplanted on 15th September, 2019. The tomato hybrids of variety NS-4266 were also transplanted on 14th September, 2019. All the planted crops performed well in protected structures.



Awards and recognitions:

1. Dr. R.K. Singh, Associate Professor of Department of Vegetable Science, CoH received Excellence in Research Award in Scientist Award Ceremony by Dr. Ram Avatar Shiksha Samiti (DRASS) on 12th July, 2019 at Lucknow University.
2. Dr. Rakesh Pandey, Associate Professor of Department of Entomology, CoA received Excellence in Teaching Award in Scientist Award Ceremony by Dr. Ram Avatar Shiksha Samiti (DRASS) on 12th July, 2019 at Lucknow University.

Patron

Dr. U.S. Gautam, Vice Chancellor

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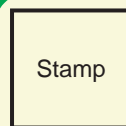
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