



BUAT NEWSLETTER

BANDA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

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From Vice Chancellor's Desk

Dear Readers

It is indeed a great pleasure for me to share the progress made by the Banda University of Agricultural and Technology, Banda during July to September, 2022. Banda University of Agriculture and Technology, Banda has made significant contribution in academic, research and extension activities during the period.



Our faculty members have done a good job in academic, research and extension activities. Time to time student guidance, thesis writings, pre submission seminar and viva-voce of Post Graduate students were beautifully done during this period. I convey my heartiest congratulations to post graduate students for their hard earned Masters' degree in the domain of Agriculture, Horticulture and Forestry. I want to say to all the Masters' degree completed students that you are about to embark on your extraordinary journey. I also take this opportunity to congratulate the teachers who worked hard for enriching the Master degree students about thesis writing, scientific interpretation and most importantly the human values and patriotism.

The University conducted UPCATET-2022 successfully, signed MoUs with reputed world renowned institutes viz. ICAR- IARI, New Delhi, ICAR- CISH, Lucknow and ICAR- IIWBR, Karnal, running 17 Research projects under various funding agencies and published good research outputs in various research journals.

During this period, University has organized a series of workshop, farmer's trainings for enhancing the food production and farmer's livelihood of Bundelkhand. The Krishi Vigyan Kendras (KVKs) have done various training of farmers and technology demonstration at farmer's field for prosperity of farmers. University has also distributed the seeds and other inputs to the farmers for enhancing the farming income through agriculture and allied activities.

With these summarized words about the work of university during July- September 2022, I wish every member of BUAT family to focus on university mission and prioritize the goals for overall agriculture development for benefit of farmers and all humankind.

Dr. Narendra Pratap Singh

ACADEMIC ACTIVITIES

■ UPCATET-2022

Uttar Pradesh Combined Agriculture and Technology Entrance Test (UPCATET) was organized by Banda University of Agriculture & Technology, Banda for admission in UG, PG and Ph.D. The exam was conducted at 42 centers of 8 districts of Uttar Pradesh and result declared on 30th June, 2022. Thereafter, online counseling process was started for UG (First Online Counseling 01-25 August, 2022, Second Online Counseling 27 Aug. to 14 Sep., 2022), PG (First Online Counseling 10-31 August, 2022, Second Online Counselling 02-20 Sep., 2022), and PhD. Online Counselling 09-24 Sep., 2022. The representatives of Registrar office of all four SAUs of UP and admission committee participated for accomplishing the offline counselling process conducted for UG (26-29 September, 2022), PG (29-30 September, 2022) and PhD (30 Sep. to 01 Oct., 2022). Academic session 2022-23 has been started from 17 Aug, 2022 for continuing batches and from 11 September, 2022 for fresh batch in all the



degree programmes of Colleges of Agriculture, Horticulture, Forestry and Community Science.

■ 26th Academic Council Meeting

The 26th meeting of Academic Council was



conducted on 15-09-2022 in administrative building, BUAT, Banda and the major agendas for instance-implementation of 19th BSMA; establishment of Museums; selection criteria, qualifications and department wise seat distribution for teaching posts and policy documents were discussed and pertinent agenda has been recommended to Board of Management for approval.

■ Scholarship and Fellowship

The cent-percent eligible students of all the degree programmes i.e. UG, PG and PhD students of this university received the UP Post matric scholarship under the proper guidance and supervision of Registrar office. Apart from this, there are several scholarships such as University fellowship to PhD students, National Talent Scholarship (NTS) from I.C.A.R., Mandi Samiti scholarships for the meritorious students are also available. Presently, eligible students are applying for UP Post Matric Fee-Reimbursement/ Scholarship as per guidelines issued by the UP Government.

RESEARCH ACTIVITIES

■ BUAT Alsi-5 (LMS 2017-I-12): New entry of linseed identified for Zone-I

A new variety of linseed named as BUAT Alsi-5 (LMS 2017-I-12), suitable for irrigated conditions of Zone-1 (Himanchal Pradesh, Punjab and Jammu) has been



identified in the AGM linseed held during Sept. 01-02, 2022 at College of Agriculture, Nagpur. The new variety is 18% superior than T-397 (NC), 21% superior than KL 263 (ZC), and 23% superior over LCK 1611 (ZC) for yield; and has 36.9% oil content. This variety is highly resistant to rust and moderately resistant to linseed bud fly.

■ Rabi Workshop-2022: Review of Progress and Plans

The Directorate of Research organized Rabi Workshop-2022 of the University during September 28-29, 2022 to review the progress and plans of research and seed production. The workshop was inaugurated by Dr. N.P. Singh, Hon'ble Vice Chancellor and department-wise progress and planning for research were reviewed on the first day whereas, seed production plan of Directorate of Seed & Farms, KVKs and Research Stations were reviewed separately on second day in his Chairmanship.

■ MoU with ICAR Institutes

With view to strengthen collaborations for teaching, research, extension and seed production, University signed MoUs with renowned Institutes of the country viz.,



ICAR-Indian Agricultural Research Institute, Pusa New Delhi on August 20, 2022, ICAR-Central Institute for Sub-tropical Horticulture, Lucknow on August 26, 2022 and ICAR-Indian Institute of Wheat and Barley Research, Karnal on August 30, 2022.

■ MoU with ICAR-IARI, New Delhi

Banda University of Agriculture and Technology, Banda has undergone MoU with ICAR-Indian Agricultural Research Institute, New Delhi on August 20, 2022 to strengthen collaboration in research, extension and seed production programmes. The MoU was signed by Dr Narendra Pratap Singh, Vice Chancellor BUAT and Dr



Ashok Kumar Singh, Director, IARI at Pusa Campus, New Delhi in presence of Dr. Vishwanathan, Joint Director Research, Dr. Rajveer Singh, Head, Division of Genetics and other renowned scientists of IARI and Dr AC Mishra, Director Research and Dr SK Singh, Director Seed & Farms of BUAT. As a result of sincere efforts of Heads of both Institutes, now farmers of Bundelkhand region will be directly benefitted.

■ MoU with ICAR-CISH, Lucknow

Banda University of Agriculture and Technology and ICAR-Central Institute of Sub-tropical Horticulture (CISH), Rahmankhera, Lucknow signed MoU today on 26 August,



2022 to extend and strengthen research and extension collaborations in the field Sub-tropical fruit crops. Dr Narendra Pratap Singh, Vice Chancellor BUAT and Dr. Neelima Garg, Director of CISH signed the MoU on the auspicious occasion of a lecture series on sustainable fruit production at CISH, Lucknow to celebrate 'AzadiKa Amrit Mahotsav'. Dr. A.C. Mishra, Director Research and Dr. A.K. Srivastav, Head, Department of Fruit Science and Director, PMEC of BUAT and a large number of scientists of CISH witnessed the occasion.

■ MoU with ICAR-IIWBR

Banda University of Agriculture and Technology signed MoU with ICAR-Indian Institute of Wheat and Barley



Research, Karnal on 30 August, 2022 during 61st All India Wheat and Barley Research Workers' Meet at

RajgamataVijayarajeScindia Krishi Vishwavidyalaya, Gwalior. Myself Dr. NP Singh as Vice Chancellor of BUAT and Dr. G.P. Singh, Director, IIWBR signed the MoU to extend mutual collaboration in the field of quality Seed production and research on rainfed/partially irrigated and durum wheat and barley in Bundelkhand by material exchange and collaborative projects. Dr. T.R. Sharma, Hon'ble DDG (Crop Science), Dr. B. Mishra, former VC, SKUAT, Dr. NK Singh, National Professor (Biotech), ICAR and many eminent scientists and experts of wheat research witnessed the programme. Dr. A.C. Mishra, Director Research and Dr. Vijay Sharma from BUAT assisted me to get the task done.

■ First report of termites' species in Hamirpur and Chitrakoot districts

Six termite species were identified and first time reported from 110 collected samples of termite from different habitats of the studied area. All the identified species belong to single sub-family Macrotermitinae of the family Termitidae. *Odonto termesobesus*, *O. gurdaspurensis* and *O. redemanni* was recorded from all tehsils namely Hamirpur Sadar, Maudaha, Sarila, Rath of Hamirpur district and Karvi, Mau, Manikpur, Rajapur tehsils of Chitrakoot district. *O. globicolaw* was also recorded from seven tehsils namely, Maudaha, Sarila, Rath, Karvi, Mau, Manikpur and Rajapur. *O. brunneus* was observed from five tehsils i.e., Hamirpur Sadar, Maudaha, Sarila, Karvi, and Mau. However, *Micro termesmycophagus* was recorded only from two tehsils namely Manikpur and Rajapur of Chitrakoot district. This species was mainly observed from heaps of weed and crop residues, dead tree stumps, leaf litter and sacred fig.

■ Visit of Assistant Adviser of NAAC, Bengaluru

NAAC workshop was organized in the University on 2nd July, 2022 and Dr. Ruchi Tripathi, Assistant Advisor, NAAC, Bengaluru addressed the programme with speech on 'An overview of NAAC Assessment and Accreditation Process (Registration, IIQA, SSR and DVV)'.



■ Visit of Hon'ble Deputy Chief Minister, UP, Shri Keshav Prasad Maurya on 10th September, 2022

Hon'ble Deputy Chief Minister, Shri Keshav Prasad Maurya visited University on 10th September, 2022 and



appreciated different activities viz. protected cultivation, low cost storage structures for onion and garlic, Integrated Farming System unit (IFS Unit), Agroforestry model and other activities of BUAT, Banda.

PUBLICATIONS

■ Research Paper

1. S K Maurya, AH Kalhapure, Dinesh Sah, M. Chaudhary, S.Verma,, RK Yadav and D. Gupta. 2022. Effect of irrigation scheduling and varieties on yield, yield attributes and profitability of Indian mustard. *Int. J. of Soil Sci.* 34(21):379-386.
2. Kumar R, Bhardwaj DR, Kumar N., & Gupta D. 2022. Studies on species composition & diversity in natural dry temperate & alpine forest ecosystem of North West Himalayas. *Environment & Ecology.* 40(1):128-136.
3. Maurya, B. K., Neetu, Singh, D. P. Singh, M. K. Maurya, S. K. and Mishra, U.K. (2022) Diallel Analysis to Investigation the Nature of Gene Action in Okra [*Abelmoschus esculentus* (L.) Moench] *International Journal of Plant & Soil Science* 34(22): 762768
4. Kumar A, Roomi Rawal, Nishi Roy, Hitesh Kumar, N.K. Bajpai, Narendra Singh, G.S. Panwar, Rekha Balodi, Malkhan Singh Gurjar, Anand Singh and Mukesh Sehgal.

2022. Incidence and management of yellow mosaic disease of Blackgram transmitted by whitefly (*Bemisia tabaci*) in bundelkhand region of Uttar Pradesh. *J. Exp. Zool. India*. 25: 1631-1638. <https://connectjournals.com/03895.2022.25.1631>

■ Popular article

1. Dinesh Sah and Aniket Kalhapure. 2022. खरीफ फसलों में अन्तः सस्य क्रियायें, कृषि जागरण 2455-1074. 27(9):26-29.
2. Kumari, V. बुंदेलखण्ड की महिलाओं के स्वास्थ्य सुधार हेतु फल-सब्जियों का महत्त्व । प्रगतिशील खेती जुलाई 2022 ISSN- 2583-2204 PP 48-51
3. Awasthi, P. (2022). किसमिश उत्पादन, दोगुनी आय का साधन, मध्य भारत कृषक भारती, जुलाई.32
4. Kumar, R., Awasthi, P., Singh, A. K. and Singh, S. C. (2022). बागवानी उत्पादन का कम लागत/परम्परागत विधियों द्वारा भण्डारण, मध्य भारत कृषक भारती. 35.
5. Kumar, R., Awasthi, P. and Singh, S.C. (2022). Energy drink unfermented beverages. *Times of Agriculture*.: 43-44.
6. Kumar, R., Awasthi, P. and Singh, S.C. (2022). मशरूम एक पोषकीय आहार, मध्य भारत कृषक भारती:68.
7. Kumar, R. Awasthi, P. and Singh, S.C. (2022). Fruit Drop: causes and remedial measures. *Times of Agriculture*. September: 72-73.
8. Maurya, B.K., Neetu, Dwivedi, S.V., Singh, M.K. Maurya, (2022) अदरक है मुनाफे की खेती, वैज्ञानिक बागवानी की लोकप्रिय पत्रिका, फल फूल, September-October 2022, 14-15

9. Neetu, Saurabh, Maurya, B.K., Maurya, S.K. and Dwivedi, S.V. 2022, Kitchen Garden for Sustainable Livelihood and Nutritional Security. *BigyanVarta*:35-38
10. Neetu, Surabh, B.K. Maurya, Shravan Kumar Maurya, 2022 प्रगतिशील खेती, July: 44

■ Book/Book Chapters

1. Mishra, V. (2022). ग्रामीण महिलाओं का आर्थिक उत्थान (In): चावल में कटाई के बाद प्रबंधन दृष्टिकोण और कृषि सम्बन्धी पहलु. Nagpal, A. S. aur Nagpal, N. K., Jaya Publishing House New Delhi.
2. Bhargava, D., Saurabh and Gautam, D. (2022). 'Geotextiles' *In:Recent Advances in Clothing and Textiles* (ISBN: 978-93-94570-37-5) Vol.-1 (1st Edition)
3. Mani, A., Prasad, K., Adhikary, T. and Singh, A. K. (2022). Antioxidant properties of Horticultural Crops; Antioxidant properties and health benefits of fruits (Part-1). Brillion Publishing, New Delhi, ISBN: 978-93-92725-67-8.
4. Singh, C.M. Pratap A, Kumar H, Singh S, Singh BK, Prasad D, Dhaliwal I, Kumar M. (2022). Recent Advances in Omics Approaches for Mungbean Improvement. In: Kamaluddin, Kiran, U., Abdin, M.Z. (eds) *Technologies in Plant Biotechnology and Breeding of Field Crops*. Springer, Singapore. https://doi.org/10.1007/978-981-16-5767-2_9
5. Kumar, R., Kumari, S., Singh, S.K., Singh, C.M., Suman, S.K. (2022). Recent Advances in Rice Breeding Using Biotechnological and Genomics Tools. In: Kamaluddin, Kiran, U., Abdin, M.Z. (eds) *Technologies in Plant Biotechnology and Breeding of Field Crops*. Springer, Singapore. https://doi.org/10.1007/978-981-16-5767-2_5

TRAININGS

■ Training/Seminar/Symposium/Webinar etc organized

| Name of organizer | Nature of Programme | Date | Venue | Name of Programme |
|-------------------------|---------------------|--------------------|-------------|--|
| Dr. Dinesh Sah | Awareness Program- | 16-22, August-2022 | BUAT, Banda | Parthenium awareness cum removal Program |
| Dr. Dinesh Sah | Training program- | 30 August-2022 | CoA, BUAT | Advanced Agricultural practices |
| Dr. Arun Kumar | Awareness program- | 09 Sept-2022 | CoA, BUAT | Kharif Forage Day |
| Directorate of Research | Workshop | 28-29 Sept-2022 | BUAT, Banda | Rabi Workshop |

■ Training/Seminar/Symposium/Webinar/Meeting etc. attended

| Name & Designation | Nature of Programme & organizer | Date (2022) | Venue |
|--|--|-------------|--|
| Dr. Priya Awasthi, Dr. Vigya Mishra, Dr. Amit Kumar Singh, Dr. Balaji Vikram | Workshop on 'Millets Day-2022' BUAT, Banda | July15, | CoH, BUAT, Banda |
| Dr. Narendra Singh | Farmers-Scientist Interaction, KVK, Banda | July 16, | KVK, Banda |
| Dr. Dinesh Sah | Rabi Faslon ki SaghanPadhhatiyan, Directorate of Agriculture, Govt. of U.P., Lucknow | July 27, | Offline at Directorate of Agriculture, Lucknow |
| Dr. Dinesh Sah, Professor | Curriculum committee meeting, Deptt. of SAF, CoF, BUAT Banda | Aug 30, | Deptt. of SAF, CoF |
| Dr. Mukul Kumar | Meeting, Presented NAAC accreditation status | Aug 04, | Rajbhawan, Lucknow |
| Dr. Vijay Sharma | Work plan meeting of wheat,IIWBR, Karnal | Aug 07, | Online |

| | | | |
|----------------------|--|-------------|-----------------|
| Dr. Amit Kumar Singh | Annual group meet on rapeseed mustard, ICAR-DRMR, Bharatpur | Aug 01-03, | RARI, Jaipur |
| Dr. Deepti Bhargava | Webinar Series, Intellectual Property Rights Awareness | Aug 1-5, | - |
| Dr. CM Singh | Review meeting | Aug 04, | UPCAR, Lucknow |
| Dr. CM Singh | Training on Gramerly software | Aug 08, | Online (BUAT) |
| Dr. Kamaluddin | Review meeting | Aug 04, | UPCAR, Lucknow |
| Dr. Hitesh Kumar | Review meeting | Aug 04, | UPCAR, Lucknow |
| Dr. Vijay Sharma | Training on Gramerly software | Aug 08, | Online (BUAT) |
| Dr. SK Singh | National Seminar, National Seed Congress | Aug 21-23, | RVSKVV, Gwalior |
| Dr. Vijay Sharma | Workshop, 61st All India Wheat and Barley Research Worker Meet | Aug 29-31, | RVSKVV, Gwalior |
| Dr. C. M. Singh | AGM | Sept 01-02, | CoA, Nagpur |
| Dr. Kamaluddin | Workshop, National nutri-cereals convention | Sept 23-24, | IIMR, Hyderabad |

■ Participation of faculty as resource person

| SN | Name of faculty | Topic | Nature of Programme | Period | Venue | Organizer |
|----|--------------------|---|---------------------------------|-------------|--------------------------|--|
| 1. | Dr. Dinesh Sah | Organic Farming Practices and Input Use | Khet Pathshala-Farmers Training | July, 2022 | CoA, BUAT Banda | Deptt. of SSAC, CoA, BUAT, Banda |
| 2. | Dr. Narendra Singh | Jalagam-water resource management | Farmers Training | Aug, 2022 | Deptt. of Agronomy, CoA, | Deptt. of Agronomy, CoA, BUAT & Yuva Vikas mandal Hamirpur |
| 3. | Dr. Dinesh Sah | Integrated farming system | Farmers training | Aug, 2022 | Deptt. of Agronomy, CoA, | Deptt. of Agronomy, CoA, BUAT & Yuva Vikas mandal Hamirpur |
| 4. | Dr. Anand Singh | Drone Technology | Field Demonstration | Aug., 2022 | KVK Banda and KVK Mahoba | KVK Banda and KVK Mahoba |
| 5. | Dr. Anand Singh | Nutrition Vatika | seminar | Sept., 2022 | KVK Banda | KVK Banda |

PARTHENIUM AWARENESS WEEK

As per guidelines of ICAR-DWR Jabalpur every year nationwide parthenium awareness week organized during 16-22 August. Parthenium is a exotic annual weed, spread with very fast rate therefore it is considered as threat for biodiversity. To create awareness about this problematic weed awareness week was organized at BUAT Banda in collaboration with AICRP-on Weed Management and was coordinated by Dr Dinesh Sah PI of the project. Awareness program was organized at college of Agriculture, Horticulture and KVK, Banda and attended by faculty, students, staffs, farm workers and NSS volunteers.



Parthenium Awareness Program 2022, August, 16-22

■ Training program- Advanced Agricultural practices

A farmers training program in Collaboration with Yuva Vikas Mandal Hamirpur was organized at BUAT Banda on 30.8.2022. Program was coordinated by Department of Agronomy. Altogether 30 farmers participated in program. Program was organized in two sessions as PPT presentation and interaction with scientist and field/ unit visit.

Farmers training program in Collaboration with
Yuva Vikas Mandal Hamirpur



■ Forage day

An awareness program on cultivation and utilization of forage crops was organized by Department of Agronomy on 9th September 2022 at BUAT Banda. Program was organized as per guidelines of ICAR-IGFRI Jhansi under AICRP on Forage Crop Production and utilization. Altogether 80 farmers participated in the program.

Kharif forage day celebration



■ AWARD / RECOGNITION

Dr. Amit Kumar Singh, Assistant Professor- PHT bagged Research Excellence Award-2022 sponsored by Society for Conservation of Natural Resources (SCNR) in 2022 at Kolkata, West Bengal.

■ CELEBRATION OF IMPORTANT EVENTS/ DAYS/ OTHERS

| S.No. | Title | Name of activities | Venue | Organizer/Co-organizer/ Participation | Outcome |
|-------|--|---------------------|------------------------------|---------------------------------------|--|
| 1. | Poshan Maah, 24 Sept., 2022 | Awareness Programme | College of Community Science | College of Community Science | Awareness created among the people about the nutritional value of food and various health benefits of food through different competitions like poster, Speech, fire less recipe. |
| 2. | Lipin Art for self-employment of rural woman, 13 July, 2022, | Training Programme | College of Community Science | College of Community Science | Enhancing the skill of rural women and motivation for making them self-reliant. |

■ EXTRA-CURRICULAR ACTIVITIES OF STUDENTS/STAFF

- Dr. Deepti Bhargava delivered a lecture in virtual mode on 21.07.2022 as Resource Person in 5 days Faculty Development Programme on 'Innovation and Recent Advances on Fashion & Textiles' organized by Vidya Institute of Fashion Technology, Meerut, U.P.
- Dr. Vandana Kumari, Associate Professor, Question paper setting of RPCAU, Pusa, B.Sc. IV semester, College of Community Science.
- Dr. Deepti Bhargava, Assistant Professor, Question paper HTA202 setting of RPCAU, Pusa, B.Sc. IV semester, College of Community Science.
- Dr. Deepti Bhargava, Assistant Professor, Question paper HTA203 setting of RPCAU, Pusa, B.Sc. IV semester, College of Community Science.
- Independence Week- Azadi Ki Amrit Mahotsav was celebrated on 5th-11th August, 2022, under National Service Scheme (NSS UNIT-II), College of Horticulture, BUAT, Banda (UP).
- Har Ghar Tiranga was celebrated on 11th-17th August, 2022, under National Service Scheme (NSS UNIT-II), College of Horticulture, BUAT, Banda (UP).
- Partition Horrors Remembrance Day was celebrated on 14th August, 2022, under National Service Scheme (NSS UNIT-II), College of Horticulture, BUAT, Banda (UP).

Glimpses of activities at BUAT



■ Plantation Drive



■ Har Ghar Tiranga Campaign



■ Teachers Day



■ Students activities in the Department of PHT Laboratory



■ Millet Diwas



■ Vibhishika Diwas



■ Blood donation camp



Patron

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