



वार्षिक प्रतिवेदन Annual Report 2020-21



आचार्य नरेन्द्र देव कृषि एवं प्रौद्योगिक विश्वविद्यालय
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Annual Report

2020-21



Acharya Narendra Deva University of Agriculture & Technology,
Kumarganj, Ayodhya - 224229 (U.P.) - India
Website- www.nduat.org

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Published by : Dr. D.K. Dubedi, Registrar, ANDUAT, Kumarganj, Ayodhya

Printed by - Maheshwri & Sons, 289/214, Motinagar, Lucknow Mob. : 9721505010

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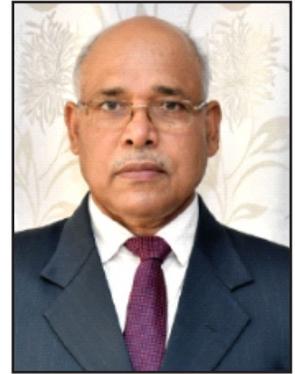
डा. बिजेन्द्र सिंह
कुलपति
Dr. Bijendra Singh
Vice Chancellor



आचार्य नरेन्द्र देव कृषि एवं प्रौद्योगिक विश्वविद्यालय
कुमारगंज, अयोध्या-224 229 (उ.प्र.), भारत
Acharya Narendra Deva University of Agriculture & Technology
Kumarganj, Ayodhya-224 229 (U.P.) India

Foreword

It is a great pleasure for me to present the Annual Report of Acharya Narendra Deva University of Agriculture & Technology for the year 2020-21. The University has served more than 45 years for furtherance of eastern Uttar Pradesh and is now serving with much greater commitment and dedication, while upscaling the brand image further with a continuous focus on the mandatory areas viz., Teaching, Research and Extension activities to accelerate Agricultural growth and development in 'Eastern Uttar Pradesh.



On the academic front, a total number of 1918 students are studying in University comprising of 1443 students in UG, 309 in PG and 166 in Ph D programs. A total of 43 students of different colleges of ANDUAT qualified in ICAR-JRF/SRF examinations.

The placement cell of the University is working well and this year a total of forty three students have been selected for the post of Sales Executive / Sales Trainee and Assistant Professors by different reputed Private Companies/ Agencies/ Educational Institutions.

On the research front, during the period 2020-21, ten improved crop varieties were developed and released from ANDUAT comprising of 03 rice varieties, one each for wheat, chickpea, field pea, bottlegourd, bael and two varieties of Aonla. University has also developed seven technologies for the benefit of farmers during reporting period. I appreciate the efforts of our scientists in presenting research at various national and international fora.

I congratulate the Planning and Monitoring Cell team on their strenuous efforts in compiling and bringing out the 43rd Annual Report of ANDUAT. I am glad to present an overview and achievements of various Colleges, Directorates and different units and sections of this University, through this Annual Report for the year 2020-2021.

(Bijendra Singh)
Vice-Chancellor

EXECUTIVE SUMMARY

Implementation of Academic Management System	University has adopted & implemented the online Agricultural University-Academic Management System (AU-AMS) in all its constituent colleges for efficient monitoring & administration of Academic activities in online mode vis-à-vis bringing transparency in the educational system. Master trainers have been appointed to address any issues faced by the faculty and the students. All the faculty members as well as the students have been registered on the Academic Management system.
Regularisation of Daily Wage Labourers	The university regularized its 101 daily wage laborers on regular posts of class III and class IV as per their qualification, who were serving in the university on temporary basis for the last 20 years or more.
Establishment of NSS Units	After a long gap, 03 units (each of 100 strength) of National Service Scheme (NSS) have been allotted to the University by the regional directorate of NSS, Ministry of Youth Affairs and Sports, Govt. of India.
Awards and Honours	<p>Our Hon'ble Vice Chancellor, Dr. Bijendra Singh was awarded with the prestigious Rafi Ahmed Kidwai award for the year 2020, for his outstanding Contributions in the field of Crop and Horticultural Sciences;</p> <p>Dr. D. Niyogi, Prof., Veterinary Pathology was awarded with the "Pashudhan Praharee award" for his outstanding Contributions in the field of Animal Welfare;</p> <p>Two Faculty Members of the University, Dr. Ram Ratan Singh and Dr. Sushil Kumar Singh were awarded with the Guru Samman Abhiyan award by the "Indian Technology and skill development council" for their long term Contributions in the field of Students' Education and students' overall development.</p>
Linkages with other Institutes & Organizations	<p>During the Year 2020-21, The university has established strong linkages with nationally and internationally renowned Apex institutes and provided exposure visits to its faculty and students. Sandwich programs have been initiated to boost the quality research activities.</p> <p>The university has signed MOUs with the following institutes:</p> <ul style="list-style-type: none"> • ICAR- Indian Veterinary Research Institute, Bareilly. • ICAR-Indian Institute of Seed Science, Mau Nath Bhanjan, U.P., India.



	<ul style="list-style-type: none"> • National Research Centre on Equines, Karnal, India. • Hester Biosciences, Ahmadabad. • Brook's India. • New Holland India Limited, Rohtak, India to promote collaborative activities for agroresidues management at pilot scale. • Madan Mohan Malviya University of Technology, Gorakhpur, India.
<p>Sustaining Academic Activities During COVID-19 pandemic</p>	<ul style="list-style-type: none"> • Online orientation program was organized for the first year students who had been admitted to the University during the Covid-19 pandemic, in which, all the dignitaries including Hon'ble Vice Chancellor briefed the students about the Academic rules, extracurricular activities etc. • The university successfully conducted online classes of the students registered in different degree program using various online platforms. Thereafter, online theory and practical examinations were conducted in time, duly following the prescribed academic guidelines. • 24 students and 18 faculty members received training for “Agripreneurship Development” conducted by the National Institute for Entrepreneurship and Small Business Development (NIESBUD), Ministry of Skill Development and Entrepreneurship, Govt. of India to promote entrepreneurship and skill development among students of the university. • 11 webinars/ online virtual seminars were conducted by various constituent colleges of the university on different subject areas wherein 25 eminent research Scientists and Professors from various apex organizations, who were invited as guest speakers, delivered their lectures on important topics and shared their practical experiences, largely benefitting the faculty and student participants. • 5 student corporate interaction programs were organized through webinars during 2020-21 COVID-19 period with orientation lectures by 5 industry experts.
<p>Students' Achievements</p>	<p>The university students excelled in various exams like ICAR JRF, SRF, NET etc. During 2020-21, Sixty four students qualified ICAR JRF (PG)/ ICAR SRF (PhD) scholarships and thirty one students have taken admission in Master's and Ph.D. programmes in different ICAR Institutes and State Agriculture Universities of the country. A total of 52 P.G. and Ph.D. Research students qualified the</p>

	<p>ICAR-National Eligibility Test (NET) for lectureship in SAUs.</p> <p>Forty students comprising of 27 boys and 13 girls from different colleges of our university participated in the All India Agri-Sports-2020 organized by Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh from 1st March to 04th March, 2020.</p> <p>04 students (2 Male & 02 Female) participated in the National Camp Named 'Swaraj se Aatma-Nirbhar Bharat Tak' organized by Association of Indian universities (AIU) to celebrate 75 years of India's Independence and 150th birth anniversary of Sri Aurobindo, with a mission to involve the young generation in the transformation of the nation.</p>
Scholarships	<p>During the academic year 2020-21, the students of different categories got scholarships and fee reimbursement from the Social Welfare, Other Backward Class and Minority departments of U.P. Government. A total of 1380 students were benefitted by these scholarships. Apart from these scholarships students also received Mandi Parishad Scholarship, National Talent Scholarship, DST Inspire Fellowship and Indo-Afghan Scholarships, University merit scholarship and International Fellowship for minority students.</p>
Placement of students	<ul style="list-style-type: none"> • Seventeen students of the university have been selected for the Uttar Pradesh state public service commission and other Govt. Institutions. • Forty three students have been selected for the posts of Assistant Professor, Sales Executive and Sales Trainee by different reputed Private Companies/ Agencies/ private Educational Institutions with the initiatives of the Directorate of Placement Cell of the University by organizing both online and offline campus interview. • Initiatives have been taken for recruitment of M.Sc. Agriculture and Horticulture students as young professionals in Uttar Pradesh State Rural Livelihood Mission; Visudh Ajivam , Jharkhand, Shivalik small finances bank. • Four students have joined in private sector in fish feed companies, two students have joined in Namami-Gange project as JRF under ICAR- CIFRI, Barrakpore, West- Bengal, and ICAR-NBFGRLucknow and two student have started own entrepreneurship in aquaculture.
Varieties Developed	<ul style="list-style-type: none"> • Rice variety: NDGR-702; Wheat variety: NW-7008 and among pulses, 2 varieties: Narendra Matar-1 & Narendra Chana-1/NDG14-11 were released by SVRC.



	<ul style="list-style-type: none"> • Rice entries: NDR 9730018; NDR 8418-3 Kalanamak/swarna; have been identified for release after being found promising in state level trials. • Narendra Aonla-25; Narendra Aonla-26; Narendra Bael-10 and Bottlegourd: NDBG-16 were submitted for release to SVRC.
Skill Development Programs	<ul style="list-style-type: none"> • Capacity building training on “Processing of aonla fruits for value addition” was organized with 30 girl student participants for promoting entrepreneurship skills among students. • Three days training cum workshop on Animal Welfare and Equine Medicine was organized by the University in collaboration with Brooke hospital for animals (India) in which 49 participants were trained. • An Agripreneurship program titled “The future of farming” was conducted by Youthscape Ayodhya in association with medha learning foundation and ICAR-NAHEP holding interactive discussions among 8 expert panelists to energize and inspire students for taking up agribusiness as career option. • A “Career advancement boot camp” training of 30 hours duration was organized by medha learning foundation with 38 participants.
Safety Initiatives during COVID-19 Pandemic	<ul style="list-style-type: none"> • All government rules regarding Covid protocols were followed. • Covid help desk was established and regular monitoring of all entering the buildings was ensured. • Regular sanitization of the all buildings premises in the University • Ensuring vaccination against corona of 100% of the staff • Keeping in view the Covid- 19 pandemic, Automatic Sanitizer machine, Thermal Scanner and oximeter has been provided in the all the hostels where student were residing for offline teaching and research purposes after re-opening of the hostels to follow the Covid- 19 Advisory. • Covid-19 testing was conducted for the staff and their family members in the campus regularly from June, 2020 and proper care was taken for quarantine and medication for the Covid-19 positive persons. • After Reopening of the hostel in the month of October, 2020, Covid-19 testing was conducted for all the students at the campus for the entry into the hostel so that only covid negative students could be allowed to stay in the hostel. Again, during

	<p>their stay in the hostel from October, 2020 to March, 2021, Covid testing was done for the students staying in all the hostels time to time. A total of 22 covid-19 testing camps were organized.</p> <ul style="list-style-type: none"> • Covid Help Desk is in operation at the entry point of all Colleges, Directorates and the Administrative building. • All the teaching and Non-teaching staff in the university has got vaccinated against covid-19 except very few persons who were severely affected with the covid-19 (890 out of 909). Most of the students of the university have also been immunized by vaccination against covid-19 through monitoring team of the university.
RESEARCH ACTIVITIES	<ul style="list-style-type: none"> • During 2020- 21, various research project proposals have been submitted to various funding agencies for approval and 14 of them have already been approved. In the current year, a total of 55 research projects are running in the university. • An organic farming unit was started during Kharif Season of 2021 which comprised of different organic components such as Press Mud, Vermicompost, FYM, NADEP Compost, Jeevamrit , Poultry Manure, Sewage and sludge and Neem Cakes in the total area of 3.2 hectare.
EXTENSION	<ul style="list-style-type: none"> • Scientists provide farm advisory services to farmers through field visits, field demonstrations, kisan gosthi and farmers' training programmes. • Virat Kisan Mela & Krishi Pradarshani was organized in the University from 20th to 22nd Dec., 2020 to showcase the newly developed/popular/new released varieties of different crops, benefits of happy seeder, use of biocontrol agents, safe use of pesticides, resource conservation technology, integrated farming system etc. in the Kisan Melas organized by the university as well as other organizations for the benefit of farmers. • University had adopted a village named Dobhiyara, in District-Amethi under progressive India programme and Farmers of this village were trained regularly throughout the year for making them self sufficient For Beekeeping, Mushroom /fish farming, decomposition of organic waste; live stock production and other Farming related activities. • Distribution of planting material / plantation campaign was also successfully completed in this village.
Infrastructural Reforms	<ul style="list-style-type: none"> • The university has upgraded its lecture theatres with latest



	<p>audio-visual aids to ensure efficient learning to the students and has also build up a Zoom room for connecting to the world through various online portals.</p> <ul style="list-style-type: none"> • In addition, each department has laboratory set up with latest equipments and facilities to provide practical in hand training to the students. This session again witnessed an up liftment in the research facilities by installation of many new sophisticated instruments in the laboratories. • University has developed a new (one of its own kind) integrated farming model named NSP -VI emphasizing on organic farming. It has brought laurels to the University, from all the visiting dignitaries, by reclamation of 6.1 hectare wasteland (userbhumi) for fodder cultivation, fish farming and horticulture crops production and planning to develop goat farm. • 24 ponds have been constructed at fish farm so that research trials can also be conducted in the sodic soil field condition. Four paddy cum vegetable cum fish culture units have been constructed for efficient demonstration of integrated aquaculture. A total of five lakhs fingerlings were produced at Instructional Fish farm of College of Fisheries and fish seed is continuously being made available to the fish farmers of nearby area. • An ornamental fishery unit is fully functional at the University where Breeding of eight ornamental fish species including Osphronemus goramy, Poecilia reticulate, Gambussia affinis, Pterophyllum scleri, Carassius auratus have been done successfully.
Germplasms Developed	<p>12 germplasms of bael (ND/AH-8, ND/AH-9, ND/AH-10, ND/AH-11, ND/AH-12, ND/AH-16, ND/AH-17, ND/AH-21, ND/AH-22, ND/AH-25, ND/AH-26, ND/AH-27) were evaluated. Out of these, four genotypes [ND/AH-10 (212.85 q/ha), ND/AH-17 (211.38 q/ha), ND/AH-16 (203.53 q/ha) and ND/AH-8 (148.57 q/ha) were recommended for commercial cultivation.</p>
Budget summary	<p>Total revenue generated during 2020-2021 was Rs. 1542.52 Lakhs against the total grant received for an amount of Rs. 7791.08 Lakhs.</p>

कार्यकारी सारांश

भारतीय कृषि अनुसंधान परिषद् की शैक्षणिक प्रबन्धन प्रणाली (AMS) का कियान्वयन	विश्वविद्यालय ने भारतीय कृषि अनुसन्धान परिषद् द्वारा आनलाइन संचालित शैक्षणिक प्रबन्धन प्रणाली को सभी महाविद्यालयों में अंगीकृत करने के पश्चात् उसका सफल कार्यान्वयन प्रारम्भ कर दिया है। इस प्रणाली के उपयोग से शैक्षणिक गतिविधियों के निरीक्षण एवं प्रबन्धन में पारदर्शिता परिलक्षित होगी। इस नवीन ऑनलाइन प्रणाली के सुगम कार्यान्वयन के लिए हर संकाय से एक-एक मास्टर ट्रेनर नियुक्त किये गये हैं तथा ए.एम.एस. के आनलाइन पोर्टल पर सभी शिक्षकों एवं छात्रों का पंजीकरण किया जा चुका है।
दैनिक वेतन भोगी श्रमिकों का विनियमितीकरण	विश्वविद्यालय में पिछले 20 वर्षों या उससे अधिक समय से कार्यरत 101 दैनिक वेतन भोगी श्रमिकों का उनकी योग्यता के अनुरूप तृतीय एवं चतुर्थ श्रेणी के पदों पर विनियमितीकरण किया गया है।
राष्ट्रीय सेवा योजना (NSS) की इकाइयों की स्थापना	विश्वविद्यालय को एक लम्बे अन्तराल के पश्चात् भारत सरकार युवा एवं खेल मंत्रालय के अर्न्तगत कार्यरत राष्ट्रीय सेवा योजना के क्षेत्रीय निदेशालय द्वारा राष्ट्रीय सेवा योजना की तीन इकाइयों (100 व्यक्ति प्रति इकाई) का आवंटन प्राप्त हुआ है।
पुरस्कार एवं सम्मान	<ul style="list-style-type: none"> ● विश्वविद्यालय के कुलपति, माननीय डा० बिजेन्द्र सिंह जी को सब्जी विज्ञान एवं उद्यानिकी फसलों के अनुसन्धान में उत्कृष्ट योगदान के लिए भारतीय कृषि अनुसन्धान परिषद् द्वारा वर्ष 2020 के अति प्रतिष्ठित 'रफी अहमद किदवई' पुरस्कार से सम्मानित किया गया। ● पशुचिकित्सा पैथोलाजी के प्राध्यापक डा० देवाशीश नियोगी को वर्ष 2021 के 'पशुपालन प्रहरी पुरस्कार' से सम्मानित किया गया। ● विश्वविद्यालय के अन्य दो संकाय सदस्यों, डा० राम रतन सिंह एवं डा० सुशील कुमार सिंह को छात्रों की शिक्षा एवं उनके सर्वांगीण विकास हेतु उनके चिरकालिक योगदान के लिए भारत सरकार के "भारतीय तकनीकी एवं कौशल विकास परिषद्" द्वारा गुरु सम्मान अभियान पुरस्कार प्रदान किया गया।
अन्य संस्थानों एवं संगठनों के साथ सम्बन्ध	वर्ष 2020-21 के दौरान विश्वविद्यालय द्वारा कई राष्ट्रीय एवं अन्तर्राष्ट्रीय ख्याति प्राप्त उच्च संस्थाओं से घनिष्ठापूर्ण अनुबन्ध स्थापित किये हैं। जिनके कारण संकाय सदस्यों एवं शिक्षार्थियों को विभिन्न सैन्डविच कार्यक्रमों के माध्यम से शिक्षा एवं शोध के क्षेत्र में उत्कृष्ट गुणवत्ता का लाभ प्राप्त हो पायेगा। विश्वविद्यालय ने निम्न संस्थानों के साथ अनुबन्ध किया है— <ol style="list-style-type: none"> 1. भारतीय पशुचिकित्सा शोध संस्थान (IVRI), बरेली, उ० प्र०, भारत। 2. भारतीय बीज विज्ञान संस्थान, मउनाथ भंजन, उ० प्र० भारत। 3. राष्ट्रीय अश्व अनुसंधान केन्द्र, करनाल



	<ol style="list-style-type: none"> 4. हेस्टर बायोसाइन्सेस, अहमदाबाद 5. ब्रूक्स इन्डिया 6. न्यू हालैण्ड इन्डिया लिमिटेड, रोहतक, भारत 7. मदन मोहन मालवीय तकनीकी विश्वविद्यालय, गोरखपुर, उ० प्र०।
<p>कोविड-19 महामारी के दौरान शैक्षणिक गतिविधियों का संचालन</p>	<ul style="list-style-type: none"> ● स्नातक, स्नातकोत्तर एवं पी-एच.डी. प्रथम वर्ष के नव प्रवेशित छात्रों के लिये, कोविड-19 महामारी के दौरान विश्वविद्यालय द्वारा आन लाइन ओरिएंटेशन कार्यक्रम कराया गया जिसमें कुलपति सहित सभी संकाय अध्यक्षों द्वारा छात्रों को विश्वविद्यालय के शैक्षणिक नियमों एवं शिक्षण गतिविधियों के बारे में अवगत कराया गया। ● विश्वविद्यालय द्वारा विभिन्न डिग्री पाठ्यक्रमों में पंजीकृत छात्रों का शिक्षण कार्य आन लाइन कक्षाओं के माध्यम से सफलतापूर्वक सम्पन्न किया गया। तत्पश्चात् आनलाइन माध्यम से ही एकेडमिक कैलेंडर के अनुसार, थ्योरी एवं प्रयोगात्मक परीक्षाओं को नियमानुसार एवं समय से संचालित कराया गया। ● विश्वविद्यालय के छात्रों में उद्यमशीलता एवं कौशल विकास के प्रोत्साहन हेतु भारत सरकार के कौशल विकास एवं उद्यमशीलता मंत्रालय के अन्तर्गत कार्यरत "राष्ट्रीय उद्यमशीलता एवं लघु उद्योग विकास संस्थान (NIESBUD) द्वारा कृषि उद्यमिता विकास पर एक प्रशिक्षण कार्यक्रम का आयोजन किया गया जिसमें 24 छात्रों एवं 18 संकाय सदस्यों ने प्रतिभाग किया। ● विश्वविद्यालय के विभिन्न महाविद्यालयों द्वारा अनेक विषयों पर कुल 11 वेबिनार आयोजित किये गये जिनमें देश के अग्रणी शोध संस्थानों एवं विश्वविद्यालयों से सम्बन्धित 25 जाने माने वैज्ञानिकों एवं प्राध्यापकों के मुख्य वक्ता के रूप में, अने अनुभवों एवं शोध उपलब्धियों के बारे में विस्तार से चर्चा की जिनसे सभी शिक्षक, छात्र एवं अन्य प्रतिभागी अत्यन्त लाभान्वित हुए। ● 2020-21 के कोविड-19 प्रभावित सत्र में वेबिनारों के माध्यम से पांच छात्र-कॉर्पोरेट सम्पर्क कार्यक्रमों का आयोजन किया गया जिनमें उद्योग जगत के कई विशेषज्ञों ने चर्चा की एवं अनुभवों तथा कुछ के स्टडीज के व्याख्यानों द्वारा छात्रों को उद्यमशीलता एवं स्व-रोजगार के प्रति प्रेरित करने में महत्वपूर्ण भूमिका अदा की।
<p>छात्रों की उपलब्धियाँ</p>	<ul style="list-style-type: none"> ● विश्वविद्यालय के छात्रों ने विभिन्न राष्ट्रीय स्तर की परीक्षाओं में उत्कृष्ट प्रदर्शन किया। वर्ष 2020-21 में कुल 64 छात्रों ने स्नातकोत्तर/पी-एच.डी. पाठ्यक्रमों में प्रवेश हेतु आई.सी.ए.आर. की जे०आर०एफ०/एस०आर०एफ० परीक्षाएं उत्तीर्ण कीं और उनमें से 31 छात्रों ने देश के विभिन्न राष्ट्रीय कृषि अनुसन्धान संस्थानों एवं राज्य कृषि विश्वविद्यालयों के स्नातकोत्तर एवं पी-एच.डी. पाठ्यक्रमों में प्रवेश अर्जित किया।

	<ul style="list-style-type: none"> ● सत्र 2020–21 में कुल 52 स्नातकोत्तर एवं पी0एच0डी0 शोध छात्रों ने ए.एस. आर.बी. की राष्ट्रीय पात्रता परीक्षा (NET) में योग्यता अर्जित की जिसके परिणामस्वरूप वे राज्य कृषि विश्वविद्यालयों में व्याख्यातावृत्ति के लिए योग्य प्रमाणित हुए। ● श्री वेंकटेश्वर वेटेरिनरी विश्वविद्यालय, तिरुपति, आंध्र प्रदेश द्वारा 1–4 मार्च 2020 तक आयोजित “आल इंडिया एग्री स्पोर्ट्स-2020” कार्यक्रम में विश्वविद्यालय के कुल 43 विद्यार्थियों ने प्रतिभाग किया जिनमें 27 छात्र तथा 13 छात्रायें थी। ● भारतवर्ष की स्वतंत्रता के 75 वर्ष पूर्ण होने के अवसर पर श्री औरोबिंदो की 150वीं जयंती मनाने के लिए, राष्ट्र परिवर्तन में युवा वर्ग की भागीदारी को परिलक्षित करने हेतु "Association for Indian Universities (AIU)" द्वारा “स्वराज से आत्मनिर्भर भारत तक” नामक एक राष्ट्रीय कैंप का आयोजन किया गया जिसमें विश्वविद्यालय के छे छात्राओं ने प्रतिभाग किया।
छात्रवृत्तियाँ	शैक्षणिक वर्ष 2020–21 के दौरान, विभिन्न वर्गों के छात्रों को उत्तर प्रदेश सरकार के समाज कल्याण विभाग, अन्य पिछडा वर्ग विभाग और अल्पसंख्यक विभाग के माध्यम से विभिन्न छात्रवृत्तियाँ एवं शुल्क प्रतिपूर्तियां प्रदान की गयी। इन छात्रवृत्तियों से लगभग 1380 छात्र लाभान्वित हुये। इन छात्रवृत्तियों के अलावा छात्रों को मण्डी परिषद् छात्रवृत्ति, डी0एस0टी0 इन्सपायर फेलोशिप एवं इण्डो-अफगान छात्रवृत्ति विश्वविद्यालय मेरिट छात्रवृत्ति तथा अल्पसंख्यक छात्रों हेतु अन्तर्राष्ट्रीय छात्रवृत्ति प्राप्त हुई।
छात्रों का प्लेसमेन्ट	<ul style="list-style-type: none"> ● विश्वविद्यालय के 17 विद्यार्थी उत्तर प्रदेश राज्य लोक सेवा आयोग तथा अन्य सरकारी संस्थानों के लिए चयनित किये गये। ● 43 छात्र-छात्राओं को डायरेक्टरेट आफ प्लेसमेंट सेल द्वारा ऑनलाइन एवं आफलाइन कैम्पस साक्षात्कार के माध्यम से कई प्रतिष्ठित निजी कम्पनियों एवं निजी शिक्षा संस्थानों में विभिन्न पदों जैसे सहायक प्राध्यापक, सेल्स एक्जीक्यूटिव, सेल्स ट्रेनी आदि के लिए चयनित किया गया। ● “उत्तर प्रदेश राज्य ग्रामीण आजीविका मिशन” द्वारा कैम्पस साक्षात्कार के माध्यम से 29 छात्र चयनित किये गये। ● निजी क्षेत्र की फिश फीड कंपनियों में चार छात्र चयनित किये गये। ● दो छात्र आईसीएआर-सीआईएफआरआई, बैरकपुर पश्चिम बंगाल और आईसीएआर-एनबीएफजीआर, लखनऊ के तहत जेआरएफ के रूप में नमामि-गंगे परियोजना में शामिल हुए हैं।
फसलों की विकसित किस्में	धान की प्रजाति: एन.डी.जी.आर-702, गेहूँ की प्रजाति: एन.डब्ल्यू-7008 एवं दलहन की दो प्रजातियों: नरेन्द्र मटर-1 और नरेन्द्र चना-1 / एन.डी.जी. 14-11 को केन्द्रीय प्रजाति संस्तुति समिति उ0 प्र0 सरकार द्वारा संस्तुति प्रदान की गई है।



	<p>धान की प्रजाति: एन.डी.आर-9730018 और एन.डी.आर-8418.3 काला नमक / स्वर्णा को राज्य स्तरीय परीक्षणों में उपयुक्त पाये जाने पर संस्तुति हेतु इंगित किया गया है।</p> <p>फल/सब्जी की प्रजातियों: नरेन्द्र ऑवला-25, नरेन्द्र ऑवला-26, नरेन्द्र बेल-10 और लौकी एन.डी.बी.जी.-16 केन्द्रीय प्रजाति संस्तुति समिति उ0प्र0 सरकार को संस्तुति हेतु प्रेषित किया गया।</p>
<p>कौशल विकास कार्यक्रम</p>	<ul style="list-style-type: none"> ● छात्राओं में उद्यमशीलता एवं कौशल विकास के प्रोत्साहन हेतु 30 प्रतिभागी छात्राओं के साथ 'मूल्यवर्धन के लिए आंवला फलों का प्रसंस्करण' शीर्षक पर एक क्षमता निर्माण प्रशिक्षण कार्यक्रम आयोजित किया गया। ● विश्वविद्यालय एवं ब्रुक अस्पताल द्वारा सामूहिक रूप से 'पशु कल्याण और घोड़ों की चिकित्सा' शीर्षक पर तीन दिवसीय प्रशिक्षण एवं कार्यशाला का आयोजन किया गया जिसमें 49 प्रतिभागियों को प्रशिक्षण दिया गया। ● विश्वविद्यालय एवं ब्रुक अस्पताल द्वारा सामूहिक रूप से 'पशु कल्याण और घोड़ों की चिकित्सा' शीर्षक पर तीन दिवसीय प्रशिक्षण एवं कार्यशाला का आयोजन किया गया जिसमें 49 प्रतिभागियों को प्रशिक्षण दिया गया। ● विश्वविद्यालय एवं मेधा लर्निंग फाउंडेशन द्वारा यूथस्केप कार्यशाला के तहत 'the future of farming' विषय पर एक कृषि-उद्यमिता कार्यक्रम का आयोजन किया गया। ● मेधा लर्निंग फाउंडेशन द्वारा 'आजीविका विकास हेतु बूटकैंप प्रशिक्षण' का आयोजन किया गया जिसमें 38 प्रतिभागियों को प्रशिक्षण दिया गया।
<p>कोविड-19 महामारी के दौरान सुरक्षा व्यवस्था का संचालन</p>	<ul style="list-style-type: none"> ● कोविड-19 महामारी के दौरान सुरक्षा के सभी सरकारी नियमों का पालन किया गया। ● एक COVID हेल्पडेस्क बनाया गया एवं परिसर में प्रवेश से पहले सभी की नियमित जांच सुनिश्चित की गई। ● विश्वविद्यालय के सभी भवनों परिसरों का नियमित रूप से सेनिटाइजेशन। ● शत-प्रतिशत कर्मचारियों का कोरोना के खिलाफ टीकाकरण सुनिश्चित करना। ● कोविड-19 महामारी को ध्यान में रखते हुए समस्त छात्रावासों में ऑटोमेटिक सेनिटाइजर मशीन, थर्मल स्कैनर एवं ऑक्सीमीटर की व्यवस्था की गयी है। ● जून, 2020 से नियमित रूप से परिसर में कर्मचारियों और उनके परिवार के सदस्यों के लिए कोविड-19 परीक्षण किया गया था और कोविड-19 सकारात्मक व्यक्तियों के लिए संगरोध और उपचार के लिए उचित देखभाल की गई। ● अक्टूबर, 2020 के महीने में छात्रावास के फिर से खुलने के बाद, छात्रावास में प्रवेश के लिए परिसर में सभी छात्रों के लिए कोविड -19 परीक्षण किया गया

	<p>था ताकि केवल कोविड नकारात्मक छात्रों को छात्रावास में रहने की अनुमति दी जा सके। पुनः अक्टूबर, 2020 से मार्च, 2021 तक छात्रावास में रहने के दौरान सभी छात्रावासों में रहने वाले विद्यार्थियों का समय-समय पर कोविड परीक्षण किया गया। कुल 22 कोविड-19 परीक्षण शिविर आयोजित किए गए।</p> <ul style="list-style-type: none"> ● सभी महाविद्यालयों, निदेशालयों और प्रशासनिक भवन के प्रवेश द्वार पर कोविड हेल्प डेस्क संचालन सुनिश्चित किया जा रहा है। ● कोविड-19 (909 में से 890) से गंभीर रूप से प्रभावित कुछ व्यक्तियों को छोड़कर विश्वविद्यालय के सभी शिक्षक और कर्मचारियों को कोविड-19 के खिलाफ टीका लगाया गया है। विश्वविद्यालय की निगरानी टीम के माध्यम से विश्वविद्यालय के अधिकांश छात्रों को भी कोविड-19 के खिलाफ टीकाकरण द्वारा प्रतिरक्षित किया गया है।
<p>अनुसन्धान गतिविधियां</p>	<ul style="list-style-type: none"> ● इस सत्र के दौरान विभिन्न शोध परियोजना प्रस्तावों को स्वीकृति के लिए विभिन्न फंडिंग एजेंसियों को प्रस्तुत किया गया है, जिनमें से 14 को स्वीकृति मिल चुकी है। चालू वर्ष में विश्वविद्यालय में कुल 55 शोध परियोजनाएं चल रही हैं। ● 2021 के खरीफ मौसम के दौरान एक जैविक कृषि इकाई का शुभारम्भ किया गया जिसमें कुल 3.2 हेक्टेयर क्षेत्रफल में विभिन्न कार्बनिक घटक जैसे प्रेसमड, वर्मीकम्पोस्ट, FYM, NADEP कम्पोस्ट, जीवामृत, पोल्ट्री खाद, सीवेज स्लज और नीम केक प्रयोग किए गए ● बेल के 12 जर्मप्लाज्म (एनडीएएच-8, एनडी/एएच-9, एनडी/एएच-10, एनडी/एएच-11, एनडी/एएच-12, एनडी/एएच-16, एनडी/एएच-17, एनडी/एएच -21, एनडी/एएच -22, एनडी/एएच -25, एनडी/एएच -26, एनडी/एएच -27) का मूल्यांकन किया गया। इनमें से चार जीनोटाइप खनडी/एएच -10 (212.85 q/ha), एनडी/एएच -17 (211.38 q/ha), एनडी/एएच -16 (203.53 q/ha) और एनडी/एएच -8 (148.57 q/ha) की व्यावसायिक खेती के लिए संस्तुति प्रदान की गई।
<p>प्रसार</p>	<ul style="list-style-type: none"> ● विश्वविद्यालय एवं विभिन्न कृषि विज्ञान केंद्रों के वैज्ञानिकों द्वारा किसानों को फील्ड विजिट, फील्ड प्रदर्शन, किसान गोष्ठी और किसानों के प्रशिक्षण कार्यक्रमों के माध्यम से कृषि सलाहकार सेवाएं प्रदान की गईं। ● 20 से 22 दिसंबर, 2020 तक विश्वविद्यालय में विराट किसान मेला और कृषि दर्शन का आयोजन किया गया जिसमें विभिन्न फसलों की नई विकसित/लोकप्रिय/नई जारी किस्मों, हैप्पी सीडर के लाभ, जैव नियंत्रण एजेंटों का उपयोग, कीटनाशकों का सुरक्षित उपयोग, संसाधन संरक्षण प्रौद्योगिकी, एकीकृत कृषि प्रणाली आदि का प्रदर्शन किया गया। ● प्रगतिशील भारत कार्यक्रम के तहत जिला-अमेठी में डोभियारा नाम के एक गाँव को विश्वविद्यालय ने गोद लिया और इस गाँव के किसानों को मधुमक्खी



	पालन, मशरूम/मछली पालन, जैविक कचरे के अपघटन के लिए उन्हें आत्मनिर्भर बनाने के लिए वैज्ञानिक एवम छात्रों ने पूरे वर्ष नियमित रूप से प्रशिक्षण कार्यक्रमों के माध्यम से प्रशिक्षित किया ।
आधारभूत सुविधायें	<ul style="list-style-type: none"> ● विश्वविद्यालय द्वारा छात्रों के लिए कुशल शिक्षण सुनिश्चित करने हेतु व्याख्यान कक्षाओं में नवीनतम ऑडियो-विजुअल एड्स स्थापित करा कर उनका उन्नयन किया गया है और विभिन्न ऑनलाइन पोर्टलों के माध्यम से दुनिया से जुड़ने के लिए एक जूम रूम भी बनाया गया है । ● इसके अलावा, प्रत्येक विभाग में छात्रों को व्यावहारिक प्रशिक्षण प्रदान करने के लिए नवीनतम उपकरणों और सुविधाओं के साथ प्रयोगशालाओं का नवीकरण किया गया जिससे शोध कार्य की गुणवत्ता में वृद्धि हुई । ● विश्वविद्यालय द्वारा जैविक खेती के लिए 6.1 हेक्टेयर ऊसर भूमि को खेती योग्य बना कर एक नया एकीकृत कृषि मॉडल विकसित किया गया जिस पर चारे की खेती, मछली पालन, बागवानी फसलों के उत्पादन और बकरी फार्म विकसित करने की योजनाओं का क्रियान्वयन हुआ है । ● विश्वविद्यालय के मत्स्य फार्म पर 24 तालाबों का निर्माण किया गया है । ● एकीकृत एक्वाकल्चर के कुशल प्रदर्शन के लिए संयुक्त धान, सब्जी और मछली पालन इकाइयों का निर्माण किया गया है । ● कॉलेज ऑफ फिशरीज के इंस्ट्रक्शनल फिश फार्म में कुल पांच लाख फिश फिंगरलिंग का उत्पादन किया गया और आसपास के क्षेत्र के मछली किसानों को लगातार फिश सीड उपलब्ध कराया जा रहा है । ● विश्वविद्यालय की मत्स्य इकाई में आठ सजावटी मछली प्रजातियों का प्रजनन किया गया है, जिनमें ओस्फ्रोनेमस गोरैमी, पोसिलिया रेटिकुलेट, गैम्बुसिया एफिनिस, टेरोफिलम स्वलेरी, कैरासियस ऑराटस प्रमुख हैं ।
राजस्व	राजस्व के आन्तरिक स्रोतों में छात्रों से प्राप्त शुल्क और अन्य स्रोतों जैसे खेतों की उपज, बीज, संस्थागत शुल्क आदि से वित्तीय वर्ष 2020-21 में 15.42 करोड का राजस्व प्राप्त हुआ ।

DOMAIN OF THE UNIVERSITY



INTRODUCTION

On January 15, 1974, the foundation stone of Acharya Narendra Deva University of Agriculture and Technology was laid by Hon'ble Prime Minister of India late Smt. Indira Gandhi at Masodha near Ayodhya city on Ayodhya-Prayagraj road. Dr. A.D. Pandey was appointed as the first Vice Chancellor on 10th October 1975 and Government of U.P. decided to locate the main campus at Kumarganj instead of Masaudha. The Headquarter of the University is at Kumarganj which is 42 km away from Ayodhya district head quarter on Ayodhya-Raibarelli road. The University is an agrarian pilgrimage of peasantry of eastern Uttar Pradesh that has mandate for agricultural development of 28 districts under seven divisions viz., Ayodhya, Basti, Devidhan, Gorakhpur, Azamgarh, Varanasi and Vindhyachal Dham, covering three agro-climatic zones like Eastern Plain Zone, North-Eastern plain zone and Vindhyan zone of eastern Uttar Pradesh popularly known as Purvanchal. At Kumarganj, the University has 1677ha. usar land, out of which on 447ha area the main campus of university has been developed and 1330 ha area is available for cultivations. The University has Directorate of Agricultural Experiment Station, Directorate of Extension, seven Zonal Research Stations, Computer Centre, Laboratories, Agricultural Research Information System (ARIS), Directorate of Placement, Agriculture Technology Information Centre (ATIC), Library, Central Instrumentation Laboratory (CIL), Playgrounds, Gymnasium, Instructional students' Farm etc., which provide enough opportunities to the students' and the faculty to develop their skills.

The University has identified several short-term and long-term goals in teaching, research and extension activities with a view to realize the mission statement. The University is guided by a Board of Management which is the policy making body and is responsible for the management of the University. The Board of Faculties through Academic Council advice the Board of Management for academic matters. The Research Advisory Committee and Extension Advisory

Committees advise the Board for research and extension activities, respectively.

The teaching activities of the University run in seven constituent colleges. The College of Agriculture, College of Home Science, College of Veterinary Science & Animal Husbandry, College of Fisheries, College of Horticulture & Forestry are located at main campus at Kumarganj. One agriculture college is in Azamgarh, while the College of Agricultural Engineering & Technology is located at Akbarpur in district Ambedkar Nagar. These colleges offer eight undergraduate programmes. Faculties of these constituent colleges take active part in teaching, research and extension activities relevant to their specialization. The constituent colleges thus strive to fulfill the goals and missions of the University.

The University is now accredited by the National Agriculture Education Board (NAEB) of ICAR. The accreditation of the University was a long awaited work that could be completed this year only.

In light of the changes that are taking place in the sphere of information technology, the University has set up a centralized computer laboratory and an Agricultural Research Information System (ARIS) with the help of the ICAR. The recruitment of faculty in recent years has declined and the University is working with only 47 percent of the sanctioned strength of teaching, research and extension personnels. Teachers of various departments carry out research projects in addition to their teaching programme, which are supported by publications in the form of research papers and books. The faculty of the University has a good track record in teaching, research and extension activities.

Research activities of the University are mainly oriented to meet the goals and objectives of the University as outlined in the mandate. The Research Advisory Committee is the apex research body in the University that has the responsibility of formulating the medium and long-term research policy and guidelines for carrying out research. The day-to-day management of all research work in the



University is coordinated and managed by the Director of Agriculture Experiment Stations which has a competent network of technical, administrative and scientific personnel linking all teaching and research campuses. The ICAR has been providing research support by locating 19 AICRP in the University. The University has evolved a set of definite and strict guidelines for release of technology to ensure quality, credibility and reliability of research output. All research results are discussed in the Zonal Research and Extension Advisory Committee meeting and any technology developed is recommended for release on farm trials or inclusion in package of practices based on open peer review in the meeting. The most satisfying research accomplishments of the University have been in the area of varietal improvement of various crops. The University has released 175 varieties of different crops and developed several production technologies particularly in the area of cultural practices under irrigated as well as dry land agriculture, water management and pest and disease management etc. in food crops, vegetable crops, horticultural crops, fibre crops and medicinal & aromatic plants etc. The crop production practices developed by the University have helped to increase productivity and reduce the cost of production. Breeding for pest and disease resistance in pulses; research in rainfed agriculture; improved crop production technology; mechanization for small farms and conservation of germplasm, genetic resources and biodiversity are some of the areas of current focus in research.

Extension is an important activity for the transfer of technology. While, the State Department of Agriculture has the major responsibility of extension, however, University has often played the lead role in transfer of technology. Training for extension functionaries, rural women and farm

youth has been a major programme of the directorate of through 25 KVKs and 4 KVKs spread in entire eastern U.P. extension. The University has also established an Agriculture Technology Information Centre (ATIC) and Krishak Help Line Service. The information provided by the University is valuable for the stakeholders of the agriculture sector of the state.

VISIONS

- ❖ Agriculturally Prosperous and Nutritionally Secure Eastern Uttar Pradesh

MISSION

- ❖ To Provide Education, Research & Extension Services In different Branches of Agriculture and other Allied Sciences to Farming Community for their Nutritional Security and Prosperous Livelihood of Uttar Pradesh In General and Eastern Uttar Pradesh in particular

GOALS & OBJECTIVES

- ❖ To produce professionals for management of second green revolution
- ❖ To accelerate the pace of enhancing rural income and employment through development of agriculture & allied fields.
- ❖ To consolidate the efforts for input and time efficient as well as cost effective technologies, processes & varieties.
- ❖ To monitor & review the agriculture

UNIVERSITY ADMINISTRATION



A. UNIVERSITY AUTHORITIES

The Uttar Pradesh (Krishi Evam Prodyogic Vishwavidyalaya Adhiniyam) 1958 (U.P. Act XLV of 1958 2A ii as amended Uttar Pradesh Krishi Vishwa Vidyalaya Adhiniyam, 1958) vest powers with the University to institute degrees, diplomas and other academic distinctions.

1. BOARD OF MANAGEMENT

Board of Management is apex body endowed with the responsibility of taking policy decisions and is headed by the Vice Chancellor. Comptroller is the Secretary of this apex body. It has Academic Council to advise the University on academic matters.

BOARD OF MANAGEMENT

S.No.	Name	Address
1.	Dr. Bijendra Singh Vice-Chancellor, Chairman	A.N.D.U.A.T., Kumarganj, Ayodhya
Members		
2.	Additional Chief Secretary Agriculture Education & Research	Govt. of U.P., Secretariat, Lucknow
3.	Additional Chief Secretary Higher Education	Govt. of U.P., Secretariat, Lucknow
4.	Additional Chief Secretary Finance	Govt. of U.P., Secretariat, Lucknow
5.	Director Animal Husbandry (U.P.)	Directorate of Animal Husbandry (In front of Ramadhin Singh Inter College, Babuganj) Lucknow



6.	Director Agriculture (U.P.)	Directorate of Agriculture, Krishi Bhawan, Lucknow
7.	Dr. Uma Shanker Singh Director Agriculture Scientist	South Asia Regional Coordinator & India Country Head International Potato Research Center South Asia Center, NASC Complex, DPS Marg, Pusa, New Delhi 110 012
8.	Sri Baba Gorakhnath MLA	Village-Baddai ka Purwa, Sahadatganj, Civil Lines, Ayodhya-224001
9.	Sri Bawan Singh MLA	Village-Gaddopur, P.O.: Parsa Maheshi, Distt. Gonda- 271502, 5/109A, Vineet Khand, Gomtinagar, Lucknow - 226010
10.	Sri Ram Sunder Chaudhary Progressive Farmer	Police Line Road, Gali No. 1, Indira Colony, Distt. - Bahraich - 271801
11.	Sri Vijay Bahadur Dubey Livestock Breeder	Ward No.3, Nehru Nagar, New Colony, Distt.- Deoria - 274001.
12.	Sri Ganga Sagar Rai Distinguished Industrialist	Betiahata, Near Unwal House, Distt. - Gorakhpur - 273001.
13.	Sri Munni Sharma Ladies Social Worker	Vill. Bisunpura, P.O. Baliywan, Distt. - Deoria - 274405
14.	Sri Neeraj Srivastava Comptroller	A.N.D.U.A.T., Kumarganj, Ayodhya

2. ACADEMIC COUNCIL

The next academic authority is the Board of Studies, which is separate for each college. The Dean is the Chairman and all heads of Departments are the members of Board of

Studies for any particular College.

The academic council of the University for the year 2020-2021 comprised of following members.

S. No.	Name	Designation	Chairman/Member
1.	Dr. Bijendra Singh	Vice-Chancellor	Chairman
2.	Dr. V.N. Rai	Dean, College of Agriculture	Member
3.	Dr. Bijendra Singh	Director, of Agriculture Experiment Station	Member
4.	Dr. O.P. Rao	Dean, College of Hort. & Forestry	Member
5.	Dr. R. K. Joshi	DAM / Dean, Vet. & A.H., Prof. & Head, Vet. Microbiology	Member
6.	Dr. D. Niyogi	Prof. Vety. Pathology/DSW	Member

7.	Dr. Rajat Kr. Mehta	Registrar & Dean, MCAET, Ambedkar Nagar	Member
8.	Dr. D. K. Dwivedi	HOD Biotech	Member
9.	Dr. A. P. Rao	Director Extension	Member
10.	Dr. P. S. Parmanik	Prof. & Head, LPM/ Dean, Fisheries	Member
11.	Dr. Namita Joshi	Dean, College of Home Sc./Prof. & Head, VPE	Member
12.	Dr. D. K. Singh	Assoc. Dean, College of Azamgarh	Member
13.	Dr. Ved Prakash	Prof. & Head, Soil Science	Member
14.	Dr. R. K. Doharey	Prof., Ext. Education	Member
15.	Dr. Rudra Pratap Singh	Prof. & Head, Bio-Chemistry	Member
16.	Dr. R.R.Singh	Prof. Soil Science & Extension Specialist, Directorate of Extension	Member
17.	Dr. Pratibha Singh	Prof., Bio-Chemistry	Member
18.	Dr. M. P Chauhan	Prof., G. P. B.	Member
19.	Dr. Susheel Kumar	Head, Plant Pathology	Member
20.	Dr. A. K. Singh	Head, Crop Physiology	Member
21.	Dr. Sita Ram Mishra	Head, Agro-Meteorology	Member
22.	Dr. V. K. Singh	Prof., Vet. & A.H.	Member
23.	Dr. Anil Kumar Gangwar	Prof. & Head, Vety. Surgery	Member
24.	Dr. Shushant Srivastava	Prof. & Head, VGO	Member
25.	Dr. Subodh Kumar	Prof. & Head, T.L.F.	Member
26.	Dr. Chandra Shekhar	Prof., VPE	Member
27.	Dr. Vijay Kumar Singh	Prof. & Head, ANN	Member
28.	Dr. R. K. Singh	Head, Vety. Extension	Member
29.	Dr. Sonu Jaiswal	Head, Vety. Clinical Complex	Member
30.	Dr. Amit Singh	Head, Parasitology	Member
31.	Dr. Sanjay Pathak	Prof. & Head, PHT	Member
32.	Dr. Bhagwan Deen	Prof. & Head, Post Harvest	Member
33.	Dr. D. Ram	Prof. & Head, Medicinal Plants	Member
34.	Dr. Suman Prasad Maurya	Head, Human Dev. & Family Studies	Member
35.	Dr. Abha Singh	Head, Family Res. Manag & Consumer Sc.	Member
36.	Dr. Sadhana Singh	Head, Food Science and Nutrition	Member
37.	Dr. Harish Chandra Singh	Prof., Agricultural Engineering	Member
38.	Dr. Subhash Chandra Vimal	BOFA Nominee	Member



39.	Dr. Ashok Kumar	BOFA Nominee	Member
40.	Dr. Ved Prakash	Dean PGS	Member
41.	Dr. Anil Kumar Singh	Head, Agronomy	Member
42.	Dr. C. N. Ram	BOFA Nominee	Member

B. OFFICERS OF THE UNIVERSITY

S. No.	Name	Designation
1.	Dr. Bijendra Singh	Vice-Chancellor
2.	Dr. R. K. Mehta	Registrar
3.	Dr. R. K. Joshi	Director, Administration and Monitoring
4.	Dr. Bijendra Singh	Director of Agriculture Experiment Station
5.	Dr. A.P. Rao	Director Extension
6.	Dr. D. Niyogi	Dean, Student's Welfare
7.	Sri Neeraj Srivastava	Comptroller
8.	Dr. V. N. Rai	Dean, College of Agriculture
9.	Dr. Sushil Kumar	Associate Dean, College of Agriculture, Main Campus
10.	Dr. D. K. Singh	Associate Dean, College of Agriculture, Azamgarh
11.	Dr. R. K. Joshi	Dean, College of Veterinary Science and A.H.
12.	Dr. O. P. Rao	Dean, College of Horticulture & Forestry
13.	Dr. P. S. Pramanik	Dean, College of Fisheries.
14.	Dr. R.K. Mehta	Dean, MCAET, Ambedkar Nagar
15.	Dr. Namita Joshi	Dean, College of Home Science

C. OTHER COMMITTEES/CELLS

1. NODAL CELL ICAR:

The University has a nodal cell for

communication to education division of ICAR for various students' related activities and issues under the guidance of ICAR.

S. No.	Name	Designation
1	Dr. R. K. Joshi	Nodal Officer
2	Dr. S. K. Maurya	Asstt. Nodal Officer

2. INSTITUTIONAL ANIMAL ETHICS COMMITTEE:

For the smooth conducting of research

on animals, University got itself registered to CPCSEA for the purpose of experiment on small and large animals in March 2019.

Members of the IAEC

Internal Members (Within University)		
1	Dr. V, K. Singh.	Chairman
2	Dr. S. K. Maurya,	Member Secretary
3	Dr. Rishikant, Incharge, animal House	Member
4	Dr. Sushant Srivastava,	Member
5	Dr. A. K. Gangwar,	Member
CPCSEA Nominees		
1	Dr. D.S. Upadhyay; CSIR – Central Drug Research Institute, Lucknow	Main Nominee
2	Dr. Atul Kumar Baranwal Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow	Link Nominee
3	Dr. Mahadeo Kumar CSIR – Indian Institute of Toxicology Research, Lucknow	Scientist from outside of the Institute
4	Dr. Alok Kumar Shukla Amity Institute of Pharmacy, Amity University, Uttar Pradesh, Lucknow	Socially aware Nominee

3. INSTITUTIONAL QUALITY ASSURANCE CELL:

For maintaining quality in all administrative and academic activities

conducted during a calander year, as per the University mandate, an Institutional Quality Assurance Cell (IQAC) has been constituted with the following members.

University IQAC Committee:

1.	Dr. Namita Joshi, Prof. & Head, VPE	Chairman
2.	Registrar	Member
3.	Dr. Ved Prakash, Prof.& Head, Soil Science	Member
4.	Dr. Sanjay Pathak, Prof. & Head, Post Harvest Technology	Member
5.	Dr. Hemant Kumar, Assoc. Prof. (P.P.), College of Horticulture & Forestry	Member
6.	Dr. Sadhana Singh, Head, Food Science and Nutrition	Member
7.	Dr. Laxmi Prasad, Asstt. Prof., College of Fisheries	Member
8.	Er. Mahendra Rai, Assoc. Prof., MCAET, Ambedkarnagar	Member
9.	Dr. Jaswant Singh, Assoc. Prof., College of Vet. Sciences & A.H.	Member



D. MEETINGS OF EXECUTIVE BODIES DURING 2020-2021

1. BOARD OF MANAGEMENT

S. No.	Name of BOM	Meeting Date
1.	187th meeting of BOM	26.06.2020
2.	188th meeting of BOM	12.10.2020

2. ACADEMIC COUNCIL

S. No.	Number of A.C. Meetings	Date
1	Academic Council Meeting 277 th	06.06.2020
2	Academic Council Meeting 278 th	08.07.2020
3	Academic Council Meeting 279 th	27.08.2020
4	Academic Council Meeting 280 th	05.10.2020
5	Academic Council Meeting 281 th	04.01.2021
6	Academic Council Meeting 281 th	13.01.2021
7	Academic Council Meeting 282 th	02.02.2021
8	Academic Council Meeting 283 th	17.02.2021
9	Academic Council Meeting 284 th	05.03.2021

Major Decisions taken by Academic Council :-

Following decisions were taken by Academic Council during the year April 2020-March 2021.

- (i) Academic council approved the nomenclature of Under Graduate and Post Graduate degree programmes of

the College of Community Science (Home Science) as per recommendations of Fifth Dean's Committee of I.C.A.R.

- (ii) Academic Council approved the reorganisation and establishment of the Departments in the College of Horticulture and Forestry in view of the recommendations of Fifth Dean's Committee of I.C.A.R.
- (iii) Academic Council approved the Hindi version of the nomenclature of the seventeen departments of the C.V.Sc.& A.H. and seven departments of College of Fisheries.
- (iv) Academic Council approved the proposal for obtaining the membership in the "उत्तर प्रदेश विश्वविद्यालय विकास संगठन" society being established under chairmanship of Hon'ble Governor of Uttar Pradesh.
- (v) Guidelines for implementation of challenged Evaluation as per directive of Additional Chief Secretary of the Hon'ble Chancellor as per letter No. E-7443/03-G.S./2019(TC) dated 26.11.20 were approved and implemented.
- (vi) The Council approved the proposal of Dean, College of Agriculture to change the nomenclature of B.Sc. (Ag.) Hon's degree to B.Sc. (Hons) Agriculture as per recommendations of Fifth Deans' Committee of ICAR, New Delhi.
- (vii) Academic Council approved to adopt of UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Education Institutions) Regulations, 2018 notification.

3. INSTITUTIONAL ANIMAL ETHICS COMMITTEE

S. No.	Meeting Number	Date	No. of proposals
1	Third meeting of IAEC	December, 18 th , 2020	15
2	Fourth meeting of IAEC	March, 20 th , 2021	04

4. FINANCE SUB COMMITTEE

S. No.	Number of Meetings	Date
1	101 st meeting of finance sub committee	26.06.2020
2	102 nd meeting of finance sub committee	12.10.2020

E. FACULTY PROFILE

Presently, total faculty strength in the constituent colleges / KVKs, research centres and AICRP of the university is 264. About 110 faculty members are in the teaching schemes, 40 in the research schemes and 114 at different KVKs in extension.

Units	Sanctioned	In position
Colleges	290	110
Research Center	44	11
AICRPs	55	29
KVKs	216	114
Total	605	264



TEACHING

COLLEGE OF AGRICULTURE, MAIN CAMPUS



A. EDUCATION

The University offers master degree programme in 33 disciplines and Ph.D. programme in 16 disciplines. Since its inception, the University has produced graduates over 1535 in Agriculture, 554 in Home Science, 389 in Veterinary, 145 in Horticulture, 106 in Fisheries and 683 in Agricultural Engineering and post graduates 2010 in various disciplines of Agriculture, 81 in Veterinary and 31 in Home Science as well as 548 Ph.Ds in various disciplines of Agriculture.

COLLEGES:

The various colleges and research stations of the university are housed in spacious buildings at their campuses. The laboratory facilities and classroom spaces are adequate for UG and PG teaching. All students wishing to stay in the campus are provided hostel facilities that are sufficient at both the campuses. Location of various constituent colleges of University is as follows –

S. No.	College	Location
1.	College of Agriculture	Main Campus, Kumarganj
2.	College of Agriculture	Kotwa, Azamgarh
3.	College of Veterinary Science & Animal Husbandry	Main Campus, Kumarganj
4.	College of Horticulture & Forestry	Main Campus, Kumarganj
5.	College of Fisheries	Main Campus, Kumarganj
6.	College of Community Science	Main Campus, Kumarganj
7.	Mahamaya College of Agriculture Engineering & Technology	Akbarpur, Ambedkar Nagar

The Agriculture College was started in February, 1977. Since then 20 departments have been created in the Faculty of Agriculture. The under-graduate teaching programme with 24 students was started in October, 1978 in a borrowed building at Extension Training Centre, Dabhasemar, Faizabad. The Post graduate programmes in four disciplines *viz.*, Agronomy, Genetics & Plant Breeding, Horticulture and Vegetable Science was started in 1981-82 with 28 students. The College encompasses several departments at present covering disciplines like; Agronomy, Genetics & Plant Breeding, Soil Science, Entomology, Plant Pathology, Crop Physiology, Agricultural Economics, Extension Education, Fisheries, Horticulture, Vegetable Science, Agro Meteorology, Agricultural Biochemistry,

Agro Forestry and Agricultural Statistics. The college is built in an estate spread over nearly 400 ha.

The main building of college consists of four wings including 13 separate departments and six lecture theatres and one auditorium. Besides, four new lecture halls were built with recent infrastructure facilities of sound system and multimedia. The college has adopted the semester system, each semester being of 18 weeks duration. At present the recommendation of 5th Dean's Committee is being followed in the college.

New Agribusiness Management Department established (ABM) and degree programme started from the session 2021-22.

STUDENTS PROFILE:

Under-Graduate Programme:

Student strength (2020 -21)										Student Pass out	
I year		II year		III year		IV year		Total 519			
M	F	M	F	M	F	M	F	M	F	M	F
110	22	114	28	105	16	115	9	444	75	162	7

Department and category wise list of M.Sc. (Ag.) students 2020-21

S. No.	Name of Department	OBC	SC	ST	UR	EWS	TOTAL
1.	Agronomy	10	05	0	06	01	22
2.	GBP	05	02	01	08	02	18
3.	Plant Pathology	05	02	00	03	00	10
4.	Crop Physiology	03	00	00	02	00	05
5.	Entomology	04	03	00	03	00	10
6.	Soil Science	04	02	00	03	01	10
7.	Agril. Economics	01	02	00	02	01	06
8.	Agril. Biochemistry	00	02	00	02	00	04



9.	Agri. Biotechnology	02	02	00	01	00	05
10.	Meteorology	03	02	00	01	01	07
11.	Extension Education	03	02	00	02	00	07
12.	Agri. Statistics	01	00	01	00	00	02
13.	Seed Science	01	01	00	01	00	03
Total		42	25	2	34	6	109
ICAR		OBC	SC	ST	UR	EWS	TOTAL
1.	Agronomy	00	01	02	03	00	06
2.	GBP	01	01	00	01	00	03
3.	Plant Pathology	02	00	00	00	00	02
4.	Crop Physiology	01	00	00	00	00	01
5.	Entomology	00	02	00	00	00	02
6.	Soil Science	00	01	00	01	01	03
7.	Agri. Economics	01	01	00	00	00	02
8.	Agri. Biochemistry	01	00	00	01	00	02
9.	Agri. Biotechnology	00	00	00	01	00	01
10.	Meteorology	02	00	00	00	00	02
11.	Extension Education	01	00	00	01	00	02
12.	Agri. Statistics	00	00	00	01	00	01
13.	Seed Science	00	00	00	01	00	01
Total		9	6	2	10	1	28
G. Total		51	31	04	44	07	137

Department and category wise list of Ph.D. Students 2020-21

S. No.	Name of Department	OBC	SC	ST	UR	EWS	TOTAL
1.	Agronomy	03	00	00	02	00	05
2.	GBP	00	01	00	01	01	03
3.	Plant Pathology	02	00	00	01	01	04
4.	Crop Physiology	00	01	00	01	01	03
5.	Entomology	00	01	00	00	01	02
6.	Soil Science	00	01	00	01	00	02
7.	Agri. Economics	00	00	00	00	00	00

8.	Agril. Biochemistry	00	00	00	00	00	00
9.	Agril. Biotechnology	00	00	00	02	00	02
10.	Meteorology	01	00	00	03	00	04
11.	Extension Education	00	00	00	03	01	04
12.	Agril. Statistics	00	00	00	02	00	02
13.	Seed Science	00	00	00	00	01	01
Total		06	04	00	16	06	32

Rural Agricultural Work Experience and Agro-Industrial Attachment (RAWE&AIA)/ Activities of students (RAWE and ELP programmes):

The Rural Agricultural Work Experience and Agro-Industrial Attachment (RAWE&AIA) as

key component of under-graduate programme for imparting rigorous orientation and familiarization of various issues and problems at the farmer's fields and villages has been carried out with utmost sincerity.



Students visit to allotted village under RAWE program



Activities of students in ELP programmes



B.Sc. (Hons.) Ag. practical classes





NEW DEVELOPMENTS:

The college has adopted Academic Management system (AMS). Master trainers have been appointed to address any issues faced by the faculty and the students. All the faculty members as well as the students have been registered on the Academic Management system. Moto is to bring transparency in the educational system.

- ❖ The college successfully conducted online classes and examinations of the students registered in different degree program using various online platforms in the wake of covid-19 pandemic for the timely completion of degree program.
- ❖ All UG, PG and Ph.D. Courses of College of Agriculture were successfully accredited by ICAR the following team view of Visit and evaluation ICAR-NAAC peer review committee.
- World Soil Day Organised by department of Soil Science, College of Agriculture

Publications department wise:

S. No	Name of Departments	Research paper published	Book Published	Book Chapter Published	Articles	Awards	Seminar/ Webinar/ Symposium
1.	Agronomy	16	01	0	06	0	05
2.	GBP	22	03	0	10	0	04
3.	Plant Pathology	05	02	0	01	01	02
4.	Crop Physiology	13	03	03	9	0	3
5.	Entomology	08	0	0	04	0	18
6.	Soil Science	14	02	05	0	0	09
7.	Agril. Economics	10	03	0	0	0	0
8.	Agril. Biochemistry	10	0	02	04	0	05
9.	Agril. Biotechnology	13	0	10	0	0	0
10.	Meteorology	15	02	04	02	0	06
11.	Extension Education	21	06	07	17	0	09
12.	Agril. Statistics	17	0	0	0	0	30
13.	Seed Science	19	0	0	03	01	0
Total		183	22	31	56	2	91



Visit of different department by the Peer Review Committee

- A training camp through NAHEP was organized from 20th to 21st February, 2020 to 25 students on mushroom productions technique for imparting employment-oriented education to students of college.

RESEARCH PROJECTS

At present, 31 research projects obtained by College from state, national and international funding agencies are running for solving the location specific problems affecting the productivity of crops and farmers welfare. The details of present research projects are given below:

A- All India Co-Ordinated Research Projects (75% ICAR share and 25% State share):

S. No.	Name of the Project/ Scheme	Year of Start
1.	AICRP on Rice Improvement	1976
2.	AICRP on Wheat & Barley Improvement	1987
3.	AICRP on MULLaRP Crops	2001
4.	AICRP on Chickpea	2001
5.	AICRP on forage Crops Improvement	2001
6.	AICRP on Potential Crops	1995

7.	National Seed Project (Crops) - 1- Seed Technology Research 2- Breeder Seed production	1978
8.	AICRP for Dry land Agriculture	1987
9.	AICRP on Irrigation Water management	1980
10.	AICRP on Integrated Farming System	1976
11.	AICRP on Agro- meteorology	1990

B- Scheme 100% Financed by ICAR:

1.	National Initiative on climate resilient agriculture (NICRA) - Dryland Agriculture	2010
2.	NICRA (Agro-meteorology)	2010

C- Research Projects Financed by International Agencies:

1.	Accelerated Genetic Gain in Rice (AGGRi-Alliance)- Marginal Environment (IRRI)	2019-20
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D- Research Projects Financed by Other National/ State Agencies:

1.	Gramin Krishi Mausam Seva (i) Head Quarter, Kumarganj Ministry of Earth Science (IAAS) (ii) Bahraich	1993
2.	Forecasting Agricultural output using space, agro-meteorology and land based observations (FASAL) Ministry of Earth Science (Govt. of India)	2010
3.	Creation of Seed hubs for increasing indigenous production of pulses in India (NFSM)	2016-17 to 2017-18
4.	Centre of Excellence in Rice (State Govt.)	2018-19
5.	Establishment of model seed testing lab. Under quality control Component of sub mission on seeds & planting material (SMSP) (Ministry of Agril. & Farmers Welfare ,GOI)	2018-19
6.	Strengthening of seed production farms	2020-21
7.	Germplasm characterization and trait discovery in wheat Using genomic approaches and its integration for improving climate resilience, productivity and nutrition quality. Sub Project: Characterization and evaluation of wheat germplasm lines for biotic stress resistance (DVT, Govt.).	2020-21



Research Projects Financed by UPCAR

Sl. No.	Name of the Project/ Scheme	Year of Start & Rs. In lacs
1.	Genetic enhancement for terminal heat tolerance in bread wheat (<i>Triticum aestivum</i> L.) with conventional and molecular breeding approaches.	2020-21 Rs. 16.77
2.	Genetic Improvement of Kala Namak for productivity traits, biotic and abiotic stress tolerance, aroma and nutritional quality.	2020-21 Rs. 14.40

E - Non - Plan Projects 100% Financed by State Govt:

1.	Oil Seed Project
2.	Pulses Project
3.	Research on Crop Physiology
4.	Foundation and breeder seed production unit and strengthening of seed testing lab.

F - Research Projects Financed by R.K.V.Y.:

1.	Establishment of molecular lab for identification of physio-molecular traits in the way of submergence & drought dual tolerance rice varieties for Rain-fed low land areas of Eastern U.P.
2.	Strength of seed production farms
3.	Collection identification and distribution of relatively high iron and zinc containing genotypes among farmers for fulfillment of nutritional requirement of rice eating poor consumers
4.	Establishment of centre for training, research and production of bio-fertilizers and bio-pesticides formulation for the benefit of farmers in eastern U.P.

LINKAGES ESTABLISHED:

- MOU signed with CSIR-Indian Institute of Seed Science (Kushmaur, Mau, U.P., India) for facilitating inter-institutional scientific collaboration, students' training and post-graduate research activities.
- MOU signed with New Holland India Limited, Rohtak, India to promote collaborative activities for agroresidues management at pilot scale.

New Report of Plant Disease:

New Report of Phytoplasmal Disease-

First report on clover proliferation phytoplasma related strain associated with *Matthiolaincana* flower virescence symptoms in Uttar Pradesh, India (This is new report to the world) reported by Panda, Priyam., Yadav, Jay Kumar., Singh, Sushil Kumar., Nigam, Amrita. and Rao, G.P. (2021). First report on clover proliferation phytoplasma related strain associated with *Matthiolaincana* lower virescence symptoms in Uttar Pradesh, India. *Plant Disease*. <https://doi.org/10.2194/PDIS-10-20-2188-PDN>. (NAAS Rating 9.81)



Figure. Symptoms of flower virescence in *Matthiola incana* (A); A close view(B); Leaf yellowing in *Acalypha indica* (C)

CROP VARIETIES NOTIFIED

Characteristics	Name of Crop
Wheat: NW-6046 <ul style="list-style-type: none"> ➤ For Rain-fed ➤ Average Yield : 21-25 q/ha. ➤ Duration : 125-127 days ➤ Plant Height : 95-97 cm. ➤ Resistance to Rust & leaf blight diseases 	
Chickpea: Narendra Chana-1 <ul style="list-style-type: none"> ➤ For Rain-fed ➤ Average Yield : 21-25 q/ha. ➤ Duration : 125-127 days ➤ Plant Height : 95-97 cm. ➤ Resistance to Rust & leaf blight diseases. 	
Field Pea: Narendra Matar-1(NDP2014-4) <ul style="list-style-type: none"> ➤ Creamy white large seeded ➤ Medium tall (68cm) type. ➤ 3.Duration:-115-118 days. ➤ 4.Yield -20-25q/ ha. ➤ 5.Resistant to powdery mildew and tolerant to rust. 	

Centre of Excellence for Rice

Government of Uttar Pradesh vide letter No. 24/2020/788/67-d`f'kv-20-1500(11)/18 dt.31.08.2020 has sanction Rs. 25.00 lacs for research work of Centre of

Excellence for Rice with several research activities are in progress which will be communicated to the Govt. time to time. Physiological, biochemical and molecular activities is ongoing.



OM-4900

EXTENSION ACTIVITIES:

College scientists provide the farm advisory services to farmers through field visits, field demonstration, kisan gosthi and farmers' training programmes. College has participated in the Virat Kisan Mela & Krishi Pradarshani on 20-22.12.2020. Inaugurated by Hon'ble Chief minister U.P., Yogi Aditya Nath Developed/ popular/ new released varieties of different crops, benefits of happy seeder, use of biocontrol agents, safe use of pesticides, resource conservation technology, integrated farming system etc. are displayed in the Kisan Melas organized by the university as well as other organizations for the benefit of farmers.



Stall visit of Hon'ble Chief Minister Virat Kisan Mela & Krishi Pradarshani (20-22. 12. 2020)

➤ Adoption of Village by College of Agriculture

Under progressive India programme, a village named Dobhiyara, District-Amethi was adopted by College of Agriculture during 2019-20. Farmers of this village were trained regularly throughout the year for making them

self sufficient under His Excellency Governor's campaign:

- For Beekeeping, Mushroom /fish farming, decomposition of organic waste; live stock production and other Farming related activities.
- Distribution of planting material / plantation campaign was also successfully completed in this village.



Visit to Dobhiyara (adopted village) by Officials from College of Agriculture

Visitors:

1. Sri Yogi Aditya Nath, Chief Minister, Govt. of Uttar Pradesh
2. Sri Surya Pratap Shahi, Minister of Agriculture Education & Agril. Research, Govt. of Uttar Pradesh.
3. Sri Devesh Chaturvedi, Additional Chief Secretary, Govt. of Uttar Pradesh.

STUDENT ACCOMPLISHMENTS

- 52 M.Sc. (Ag.) and Research scholars qualified National Eligibility Test (NET).
- Students of B.Sc. (Ag.) were provided extra facility of teaching through JRF coaching. Consequently, 16 B.Sc. (Ag.) students qualified for JRF (Junior Research Fellowship).

List:

List of Students from College of Agriculture, ANDUA& T that have qualified the ICAR-JRF entrance examination for admission to M.Sc. (Ag.) programs at various agricultural institutions in India

Sl. No.	Name of Student	University Id.No.	Rank ICAR	Category Rank	Subject
Students from College of Agriculture (Main Campus)					
1.	Rohit Yadav	A-9184/16	16	OBC-08	Agronomy
2.	Suraj Mishra	A-9210/16	22	EWS-08	Plant Science
3.	Lakshman	A-9147/16	43	OBC-21	Agronomy
4.	Pritam Kumar Patel	A-9167/16	91	OBC-40	Agronomy
5.	Jitendra Rajak	A-9139/16	171	SC-14	Horticulture
6.	Rishabh	A-9183/16	202	EWS-25	Social Science
7.	Vishal	A-9220/16	203	OBC-102	Social Science
8.	Sandeep Kumar	A-9187/16	302	OBC-134	Plant Science
9.	Dharmendra Kumar	A-9126/16	360	SC-	Plant Science
10.	Sukhvinder	A-9208/16	453	SC-60	Physical Science
11.	Neeraj Kumar	A-9156/16	609	SC-38	Plant Science
12.	Gyanendra	A-9134/16	930	EWS-111	Plant Science
13.	Deepak Patel	A-9125/16	1075	OBC-472	Plant Science
Students from College of Agriculture (Azamgarh Campus)					
1.	Atish Yadav	A-9241/16	51	OBC-27	Physical Science
2.	Ankit Kumar	A-9234/16	454	SC-21	Plant Science
3.	Vimal Kumar	A-9281/16	599	OBC-268	Plant Science

➤ **Placement of students**

17 M.Sc. (Ag.) and Ph. D. students were

selected for State Public Service Commission, Uttar Pradesh and other Government institutions.



List of Students that have qualified the ICAR-SRF entrance examination for admission to Ph.D. programs at various Agricultural institutions in India

Sl. No.	Name of Student	ICAR Exam Enroll. No.	Rank ICAR	Category Rank	Subject
College of Agriculture, ANDUA & T, Kumarganj, Ayodhya					
1.	Anuj Kumar	DL01001526	45	SC-3	Agricultural Biotechnology
2.	Harshit Singh	UP18000686	142	EWS-10	-
3.	Rohit	UP18000490	172	EWS-20	Agricultural Extension
4.	Abhijeet	MP12000038	214	SC-32	Agricultural Extension
5.	Anuradha Singh	UP18000491	216	OBC-87	Agricultural Extension
6.	Chandra Shekhar Prajapati	UP18000616	223	OBC-89	Agricultural Extension
7.	Abhishek Singh	UP12000563	375	GEN-375	-
ANDUA&T Enroll. Id.					
1.	Himanshu Tiwari	A-7750/14/18	-	-	Agronomy
2.	Akhilesh Kumar Prajapati	A-10478/18	-	-	Agronomy
3.	Ankur Tripathi	A-10479/18	-	-	Agronomy
4.	Prem Chand Chaurasia	A-10487/18	-	-	Agronomy
5.	Shaurabh Raj Pandey	A-10490/18	-	-	Agronomy
6.	Shivanand Maurya	A-10491/18	-	-	Agronomy
7.	Shweta Gupta	A-10492/18	-	-	Agronomy

Faculty Achievements

- Guru Samman Abhiyaan award**

Dr. Sushil Kumar Singh, Associate Dean, College of Agriculture at Main Campus, was awarded with the Guru Samman Abhiyaan award by the "Indian Technology and Skill Development Council, GoI, for his long term Contributions in the field of Students' Education and students' overall Development

Photographs of Activities of World Meteorological day



Photos and News paper clippings of Farmers Awareness Programme (FAP) Organized by Deptt. of Agril. Meteorology, ANDUAT, Kumarganj, Ayodhya, Uttar Pradesh under GKMS-Project.

COLLEGE OF AGRICULTURE, KOTWA AZAMGARH

- College of Agriculture, Azamgarh has celebrated Dr Ambedkar Jayanti on 14th April 2020 at College of Agriculture, Azamgarh.
- All the faculties of College of Agriculture, Azamgarh have attended zoom meeting chaired by Hon'ble Vice Chancellor and submitted the monitoring report of allotted students during Covid-19 pandemic period on 12.05.2020.
- College of Agriculture, Azamgarh has successfully conducted Online Mock-Test of B.Sc.(Ag.) 1st, 2nd and 3rd year students during 22.05.2020 to 30.05.2020.
- College of Agriculture, Azamgarh has celebrated World Environment Day on 05.06.2020.
- College of Agriculture, Azamgarh distributed 100 packets of ration to the migrants during Covid-19 pandemic at College of Agriculture, Kotwa, Azamgarh (UP).
- College of Agriculture, Azamgarh has submitted the report of course completion during lockdown period.
- College of agriculture, Kotwa, Azamgarh has celebrated van Mahotsav on 07-7-2020.
- All the faculties of College of Agriculture, Azamgarh have attended Joint Workshop of NAHEP-AMS (Academic Management System) and registered themselves in the University AMS website on 08.08.2020.
- All the faculties of College of Agriculture, Azamgarh have attended the inauguration programme of "Krishi Megh" (NARES-Cloud Infrastructure and Services)

alongwith "Accreditation Portal" and "Alumini Network Portal" of A.N.D.U.A.&T. Kumarganj, Ayodhya virtually on 11.08.2020.

- College of agriculture, Kotwa, Azamgarh has celebrated 73rd Independence Day on 15-08-2020.
- College of agriculture, Kotwa, Azamgarh has celebrated teacher's day on 05-09-2020.



- College of agriculture, Kotwa, Azamgarh has conducted online midterm examination through google class and google forms for the students during COVID-19 on 10-08-2020 to 27-08-2020.
- College of agriculture, Kotwa, Azamgarh has conducted online final examination through google class and google forms for the students during COVID-19 on 1-09-2020 to 14-09-2020.
- Prof Dharendra Kumar Singh appointed as associate Dean at College of agriculture, Kotwa, Azamgarh on 14.09.2020.
- College of agriculture, Kotwa, Azamgarh has started session of 2020-21 (1st semester) for, 2nd, 3rd year and 4th year students from 26-09-2020.
- College of agriculture, Kotwa, Azamgarh has organized one-week cleanliness programme from 26-09-2020 to 02-10-2020



as a Swachh Bharat Abhiyan.

- College of agriculture, Kotwa, Azamgarh has celebrated Gandhi and Shastri Jayanti on 2nd October 2020. College of agriculture, Kotwa, Azamgarh has organized poster making and essay writing competition on 30-09-2020 through virtual medium.



- College of agriculture, Kotwa, Azamgarh has organized orientation programme for RAWE on 9-10-2020 in virtual mode.
- College of agriculture, Kotwa, Azamgarh has celebrated 45th foundation day of Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya on 10-10-2020.
- College of agriculture, Kotwa, Azamgarh has celebrated global handwashing day on 15-10-2020.
- College of agriculture, Kotwa, Azamgarh has celebrated birth anniversary of Acharya Narendra Dev and Sardar Ballabh Bhai Patel on 31-10-2020.
- College of agriculture, Kotwa, Azamgarh has organized orientation programme for the first-year students on 2-11-2020 in virtual mode.
- College of agriculture, Kotwa, Azamgarh has organized presentation programme of the achievement of faculty members during COVID-19 from 7-11-2020 to 11-11-2020.
- College of agriculture, Kotwa, Azamgarh

welcomed Principal scientist of IIVR Varanasi Dr. T Choubey 07-11-2020.

- College of agriculture, Kotwa, Azamgarh welcomed Dr. O.N. Singh Vice Chancellor of Birsa Krishi Vishwavidyalaya, Ranchi on 02-12-2020.



- College of agriculture, Kotwa, Azamgarh has celebrated agricultural education day with the students of Sri Mukhran Singh Samrak inter college Wasirpur, Azamgarh on 03-12-2020.



- College of agriculture, Kotwa, Azamgarh has organized health checkup camp in campus on 09-12-2020.



- All faculty members of College of agriculture, Kotwa, Azamgarh has attended meeting organized Dr. RC Goyal for AMS (master trainer) on 22-12-2020.

- College of Agriculture campus, Kotwa, Azamgarh has organized the Kisan Mela on 25th December 2020 at College campus. The chief guest of this occasion, cabinet minister Uttar Pradesh government Shri Suresh Rana has inaugurated the Kisan mela.
- College of agriculture has organized 11 days Swachhta Abhiyan from 21-12-2020 to 31-10-2020.
- Prof Dharendra Kumar Singh, Associate Dean, College of agriculture, Kotwa, Azamgarh has awarded from fellowship by International society for noni sciences in last week of December 2020.
- Faculty members of College of agriculture, Kotwa, Azamgarh has submitted various projects to RKVY-RAFTAAR in 2020.
- All the faculty members of College of agriculture, Kotwa, Azamgarh were engaged in various extension activities organized under Kisan Kalyan Mission.
- All the faculty members of College of agriculture submitted research paper/article for the convocation of Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya.
- College of agriculture, Kotwa, Azamgarh welcomed Dr. Mahendra Kumar Prabhari Higher Education on 04-01-2021.
- All the faculty members of College of agriculture has attended meeting for AU-PIMS organized under NAHEP on 10-01-2021.
- College of agriculture, Kotwa, Azamgarh has conducted midterm examination of the B.Sc. Ag students from 11-01-2021 to 21-01-2021.
- All the faculty and staff of College of agriculture remembered Dr YL Nene of his 3rd death anniversary on 15-01-2021.
- Dr Vijay Laxmi Rai has appointed as secretary of BOFAC ON 01-01-2021.
- All the faculty members of College of agriculture has attended 1st meeting of BOFAC organized under the chairmanship of Dr. Dharendra Kumar Singh on 22-01-2021.
- College of agriculture, Kotwa, Azamgarh has celebrated republic day on 26-01-2021.
- Hon'ble Vice chancellor sir Dr. Bijendra Singh visited College of Agriculture Kotwa campus on 31-01-2021.
- College of Agriculture campus, Kotwa, Azamgarh has conducted final examination of 1st year and 2nd year students by offline mode and 3rd year students by online mode from 22-02-2021 to 06-03-2021.
- College of Agriculture campus, Kotwa, Azamgarh has conducted final exam of final year students and presentation of RAWE from 05-03-2021 to 12-03-2021.

Faculty Achievements

Awards

1. Sandeep Pandey received Young Scientist Award 2020 by Agricultural Technology development Society Ghaziabad, Utter Pradesh India.
2. Prakash Yadav received Outstanding Achievement award 2020 for contribution in field of Agronomy awarded by Agricultural Technology development Society Ghaziabad, Utter Pradesh India.
3. Renu Gangwar received Excellence teaching award for outstanding contribution in the field of agricultural



extension education awarded by Agricultural Technology development Society Ghaziabad, Utter Pradesh India.

4. Akanksha Tiwari received Young Plant Breeder 2020 awarded by Agricultural & Environmental Technology Development Society, Uttarakhand.
5. Vinod Kumar received best Teacher Award by Acharya Narendra Deva University of Agriculture & Technology, Ayodhya on 5th September, 2020.
6. AK Singh received Outstanding Achievement Award 2020 in Agriculture Economics by Agricultural Technology development Society Ghaziabad, Utter Pradesh India.
7. Piyush Singh received Young women Scientist Award 2020 awarded by Agricultural & Environmental Technology Development Society, Uttarakhand.

Participation in Training

1. Akanksha Tiwari Participated in Ten Days Training Programme on “Understanding Biometrical Genetics: Statistical Manoeuvring Towards Ensuring Food Security” organized by Dryland Agriculture Research Station (DARS) under IDP-NAHEP SKUAST-Kashmir during September 7th -16th, 2020.
2. Akanksha Tiwari Participate in seven days Faculty Development Programme on “New Educational Environment through Information Technology” organized by College of Agriculture, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola during July, 15-21, 2020.
3. Akanksha Tiwari Participate in seven days Faculty Development Programme on “New Educational Environment through Information Technology” organized by College of Agriculture, Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola during July, 15-21, 2020
4. Akanksha Tiwari Participated in three days Online International students and faculty development programme on “Innovation Food Processing Technologies. Value addition, Food Safety and Security” under IDP-NAHEP on “Reinforcement of the Brand Value on University for Designing Market Ready Graduates for Entrepreneurship and Employment Generation” organized by RVSKVV, Gwalior from 29 June to 01 July 2020.
5. Akanksha Tiwari Participated in National e-Training on “Quality Seed Production of Vegetable Crops under Protected Cultivation” organized by C S Azad University of Agriculture & Technology, Kanpur during 24-28 August, 2020
6. Akanksha Tiwari Participated in National E-Training on “Scaling up knowledge domain and Entrepreneurial Skill Development of Post Graduate Students and Budding Scientists for Quality Seed Production and Seed Quality Enhancement” sponsored under NAHEP Project at CS Azad University of Agriculture & Technology, Kanpur during 25th-29th August, 2020.
7. Akanksha Tiwari Actively participated in 10 days National level online training programme on “Emerging trends in Seed Production Technology and Quality Control Framework for effective seed supply chain of horticultural crops” organised by Department of Biotechnology and Crop Improvement, College of Horticulture, Bidar (University of Horticultural Sciences, Bagalkot),

- Karnataka from 28.12.2020 to 06.01.2021..
8. Akanksha Tiwari Successfully completed 21 days NAHEP-CAAST Sponsored- The National Level Higher Training on “Sustainable Development of Secondary Agriculture: Economical, Food & Nutritional and Livelihood Perspective” virtually organized by Centre for Advanced Agricultural Science and Technology on Secondary Agriculture, CAAST Secretariat, Directorate of Research, NAU, Navsari - Gujarat (INDIA) from 16.01.2021 to 05.02.2021.
 9. Akanksha Tiwari Actively participated in the 12 days training program on “Journey of Pearl Millet – From Land to Lab to Plate” under the Niche Area of Excellence scheme of ICAR which was organized by Division of Biochemistry, IARI from 1st to 12th March, 2021 through virtual platform.
 10. Renu Gangwar Participated in National level training on organic farming organized by Jawaharlal Nehru Krishi Vishwa Vidhyalaya Balaghat during 16 June to 20 June 2020.
 11. Renu Gangwar Completed 7 days online MOOCs Programme on e-Extension in Agriculture and Allied Sector organized by Organized by MANAGE, Hyderabad from 25th January, 2021 to 31st January, 2021.
 12. Renu Gangwar Participated in the Online Training Workshop on Mass Communication & Media Management Under Training of Other Stakeholders organized by Indian Institute of Forest Management, Bhopal from 4th February 2021 to 5th February 2021.
 13. Renu Gangwar Completed 31 days massive open online course (MOOC) on designing e-learning content organized by ICAR- National academy of Agricultural research management held during July 1-31, 2020.
 14. Renu Gangwar Completed 7 days massive open online course (MOOC) on application of ICT in agriculture organized by MANAGE, Hyderabad during September 21-28, 2020.
 15. Renu Gangwar Participated in massive open online course (MOOC) on Extension Skills for Supply Chain Management in Agriculture and Allied Sectors organized by MANAGE, Hyderabad during October 19-23 2020.
 16. Renu Gangwar Completed 7 days massive open online course (MOOC) on e-Extension in Agriculture and Allied Sector organized by MANAGE, Hyderabad during January 25-31, 2020.
 17. Anil Kumar Singh Participated online Training Programme on “Ergonomics Methodology for Designing and Assessing Women Friendly Agriculture Tools and Technology” organised by Department of Resource Management and Consumer Sciences, College of Community and Applied Sciences, MPUAT, Udaipur, Rajasthan, held during 17 August to 21 August 2020
 18. Anil Kumar Singh Participated online Training Programme on “Agriculture 4.0: Precision and Automated Ag Technologies” organised by Central for Advanced Agriculture Science and Technology for climatic Smart Agriculture and Water Management (CAAST-CSAWM), Mahatma Phule Krishi Vidyapeeth, Rahuri(Maharashtra Stast) under National Agriculture Higher Education Project (NAHEP), Indian Council of Agricultural Research (ICAR), New Delhi, held during 28 Sep to 02



October 2020.

19. Anil Kumar Singh Participated online Training Programme on "Post-Harvest Management of Agricultural Produce during Natural Calamities/ Disaster" organised by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India and ICAR-Central Institute of Postharvest Engineering & Technology held during 19 October to 21 October 2020.
20. Piyusha Singh participated in massive Open Online Course (MOOC) on Designing E-Learning Content, organized by ICAR National Academy of Agricultural Research Management, Hyderabad on 1-31 July, 2020.
21. Piyusha Singh participated in Ten Days Training Programme on 'Understanding Biometrical Genetics: Statistical Maneuvering Towards Ensuring Food Security' organized by Dryland Agriculture Research Station (DARS) under IDP-NAHEP SKUAST-Kashmir on 7-16 September 2020.
22. Piyusha Singh participated in Five Days On-line Training Programme on 'Google Suite for E-Learning'. Organized by Agriculture research information system SKUAST-Kashmir on 21-25 September 2020.
23. Piyusha Singh participated in Five Days On-line Training Programme on "Creativity & Innovation Management in Research". Sponsored under Women Component: DISHA by Department of Science & Technology, Ministry of Science & Technology Government of India; under the Scheme National Training Programme for Technologists and Scientists working in Government Sector on 26-30 October 2020.

24. Piyusha Singh participated in Five Days On-line Training Programme on "Internet of Things". Sponsored under Women Component: DISHA by Department of Science & Technology, Ministry of Science & Technology Government of India; under the Scheme National Training Programme for Technologists and Scientists working in Government Sector on 14-18 December 2020.

Research project

1. Project accepted by UPCAR entitled "Development of Parthenocarpic Cucumber Genotype(s) for Protected Cultivation"
Total budget-24.97 lacs
Principle investigator-Dr. Vimlesh Kumar
Co-PI-Dr. Akanksha Tiwari
Co-PI-Dr. Sandeep Kumar Pandey
 2. Project accepted by RKVY entitled "Establishment of hydroponic system under open field conditions for farmers and entrepreneurs in Eastern U.P."
Total Budget-116.45 Lacs
PI-Dr. Sandeep Kumar Pandey
Co-PI-Dr. Vimlesh Kumar
Co-PI-Dr. T. Pandiaraj
- Dr. Vinit Pratap Singh appointed as a coordinator of the Experiential Learning Program at College of Agriculture, Azamgarh.
 - Dr. Renu Gangwar appointed as a coordinator of Rural Agriculture Work Experience Program at College of Agriculture, Azamgarh.

COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY

The college got accredited by National Agricultural Education Board of ICAR in its 24th meeting held on 17th September 2020. The college received overall score of 2.93, highest among the colleges of the university.



ACADEMIC INITIATIVES

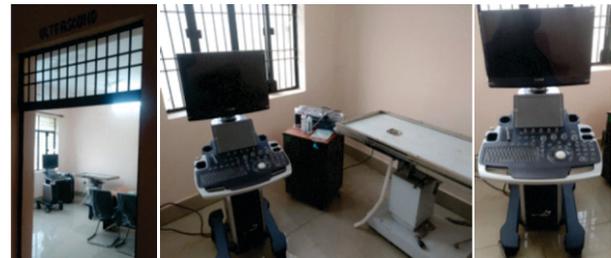
- IMPLEMENTATION OF ACADEMIC MANAGEMENT SYSTEM
- STRENGTHENING OF LECTURE ROOMS AND LABORATORIES

The college has lecture theatres equipped with latest audio-visual aids to ensure efficient learning to the

students. In the session 2020-21 the college upgraded its class rooms into smart classes and has also build up a Zoom room for connecting to the world through various online portals. In addition, each department has laboratory set up with latest equipments and facilities to provide practical in hand training to the students. This session again witnessed an up liftment in the research facilities as many new sophisticated instruments were installed in the laboratories.

➤ Laboratories/Units Established

1. Ultrasonography Unit



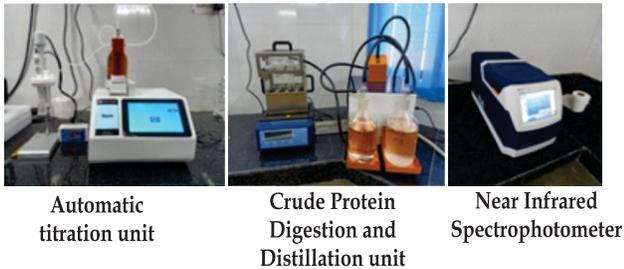
2. Small Animal Operation Theatre

3. Digital Radiography Unit

4. Strengthening of Diagnostic Laboratory



Establishment of feed analysis and quality control laboratory



Automatic titration unit

Crude Protein Digestion and Distillation unit

Near Infrared Spectrophotometer

- **DEVELOPMENT OF integrated farming model** named NSP –VI emphasizing on organic farming.

The college also developed a one of its own kind new integrated farming model named NSP –VI emphasizing on organic farming that brought laurels to the college from all the visiting dignitaries by reclamation of 6.1 hectare wasteland (userbhumi) for fodder cultivation, fish farming and horticulture crops and planning to develop goat farm



- **Online orientation program** was organized on 11th December 2020 for the first year students, in which all the dignitaries including Hon'ble Vice Chancellor briefed the students about the Academic rules, clinical, extracurricular activities and other facilities /amenities were discussed.
- **Internship Program**
Final year B.V.Sc. & A.H. students are required to undergo their 6 months compulsory internship program to obtain Bachelors of Veterinary Science

and Animal Husbandry Degree. During this 180 days they have to attend different phases namely vaccine production, zoo and wild life management, clinical phase, poultry production, equine management as a part of practical hands on training.

In the academic session 2019-2020 a total of **33 students got themselves registered in internship program.**

Topper: Miss Seema Chaurasia , 85.4 %

Second position: Miss Anuka Yadav, 83.41%

Third place : Tarun Nar Singh, 81.52%

Percentage	Number of students
>80 percent	05
>70 to <80 percent	10
>60to <70 percent	16

The college conducted online oath taking ceremony on August 22, 2020 for the passing out students.



- **Online classes and examinations**

The college successfully conducted online classes of the students registered in different degree program using various online platforms in the wake of covid-19 pandemic. For the timely completion of degree program, the college conducted the online theory and practical examinations following the guidelines of Veterinary Council of India.

RESEARCH

To address the problem of drug resistance, the college has been conducting research on establishing database of antimicrobial resistance pattern of Eastern Uttar Pradesh especially Methicillin resistance Staph aureus, Extended spectrum β lactamase and Cabapenemase producing Enterobacteria which are the priority agents as per WHO.



Identification of ESBL bacteria



MIC Determination by E strip

- College is also working on establishing the prevalence of major animal parasites and following prevalence of has been recorded in Ayodhya district.

Animals	Parasites	Incidence
Bovines	Theileriosis	23.65%
	Trypanosomosis	2.63%
	Amphistomosis	10%
Sheep and Goat	Haemonchosis	54.0%
	Amphistomosis	10%
Equines	<i>Theileria equi</i>	14.0%
	Microfilariae	6.25%

RKVY Projects

S. No.	Name of Project	Budget (In Lakhs)	Name of PI/Co-PI
1.	Establishment of feed analysis and quality control laboratory	290.0	Dr. V. K Singh (PI) Dr. Sachin Gautam (Co PI) Dr. Sushant Srivastava
2.	Conservation, propagation and genetic improvement of Sahiwal cattle in eastern UP	288.76	Dr. Sushant Srivastava (PI) Dr. Rabindra Kumar (Co-PI) Dr. Rajesh Kumar (Co-PI)

- Research is being carried to develop **Non-antibiotic phytogetic feed additive** in poultry farming.
- Incidence of common diseases causing mortality in poultry in Eastern Uttar Pradesh has been studied to **establish the package of practices** to be followed for profitable poultry farming.
- The college has been promoting the research on locally abundant medicinal plants and their products namely Aonla, Moringa, Neem, Guava etc. against common parasitic diseases and mastitis. *In vitro* efficacy of these plants is being established against common pathogens of mastitis. In addition the efficacy of different essential oils has also been adjudged against common mastitid causing isolates a step towards developing an indigenous udder health kit.



In vitro efficacy of *Moringa oleifera* against *S. aureus*



3	Froz "Frozen Semen Bank for Indigenous Livestock"	181.00	Dr. Sushant Srivastava (PI) Dr. V.K. Singh (Co-PI) Dr. Bhoopendra Singh (Co-PI) Dr. Rabindra Kumar (Co-PI) Dr. Rajesh Kumar (Co-PI)
4.	"Production of elite germplasm through embryo transfer techniques in bovines"	332.00	Dr. Rabindra Kumar (PI) Dr. Sushant Srivastava (Co-PI) Dr. Bhoopendra Singh (Co-PI) Dr. Rajesh Kumar (Co-PI) Dr. Pramod Kumar (Co-PI)
5.	Strengthening of Clinical Complex"	496.4	Dr. Sonu Jaiswal (PI)
6.	Establishment of Milk processing plants	25.95	Dr. S. S. Sengar Dr. Ruma
7.	Strengthening of parasitological laboratory with advance diagnostic facilities for the detection of parasitic diseases.	92.77	Dr. Amit Singh

EXTENSION ACTIVITIES

Kisan Mela

College participated actively in Virat Kisan mela on 22nd and 23th December in which **Hon'ble Chief Minister Shri Yogi Aditya Nath**, worthy chief guest visited the college stall where live exhibits like different breeds of poultry, milk adulteration testing, value added milk products, clinical specimens were displayed. **In addition Hon'ble chief minister inaugurated RKVY projects running in the college.**



Pradhanmantri Gareeb Kalyan Rozgar Abhiyan

Farmers are given training time to time on different health and public health issues. The faculty has been providing training to the migrant labours under "**Pradhanmantri Gareeb Kalyan Rozgar Abhiyan**" at the university Krishi Vigyan Kendra.



Mastitis awareness campaign drive

Mastitis awareness drive was started by the department of veterinary medicine. Screening of milk was performed in the village Shanker Pur, Block-Vikramjot, District –Basti; Jorium Dsitric Ayodhya and Arahampur district Amethi U.P.and the villagers were informed about the prevention and control measures to be adopted for mastitis. A pamphlet describing different prevention and control measures prepared by the department was distributed amongst the farmers.

STUDENT DEVELOPMENT PROGRAMS

The college is establishing strong linkages with nationally and internationally renowned expert institutes to boost its research activities. MOU'S have been signed with institutes namely **NRC Equines, IVRI Bareilly, Hester Biosciences, Ahemdabad, Brooke India**. For the first time college in collaboration with Brooks India has taken initiatives to train the street Ferriary by **establishing a ferriary school**.



MOU with NRC Equine



MOU with Brook India

SKILL DEVELOPMENT PROGRAMS

Webinars organized

1. **TITLE: BIODIVERSITY IN RELATION TO ECOHEALTH**

Date: 5th June

Organising Secretary: Dr Namita Joshi, Professor and Head, VPH

Guest Speakers:

Dr R C Agrawal, DDG Education Division, ICAR

Dr S V S Malik, Principal Scientist and Head, IVRI

Dr D K Sadana, Retd. Principal Scientist, NBAGR

Dr Madhulika Agrawal, Professor, BHU



2. **Title: PROSPECTS OF ANIMAL HUSBANDRY SECTOR IN MILEU OF AATM NIRBHAR BHARAT**

Date : June 27th 2020

Organizing Secretary: Dr S. K. Maurya, Asstt Professor, Veterinary Biochemistry

Guest Speakers:

Dr B. N. Tripathi, ADG, Animal Science, ICAR

Dr S. K. Garg, Former Vice Chancellor, DUVASU, Mathura

Dr G. K. Singh, Vice Chancellor, DUVASU, Mathura

Dr R. S. Chauhan, Professor, Vety



Pathology, GBPUA&T, Pantnagar

During the webinar, speakers elaborated the theme and emphasized the aims towards cutting down import dependency by focusing on substitution while improving safety compliance and quality goods to gain global market share in the field of animal husbandry. They also signified the role of animal husbandry sector in making India a self-reliance country.

The speakers emphasized on the need of demand driven innovative research in the field of livestock products and value addition. The possibilities in health management by innovative and indigenously developed products like vaccines and diagnostics were also discussed. The webinar concluded that the vision of Aatmanirbhar Bharat can only be achieved by using indigenous technology in animal husbandry sector.

1. **TITLE: "STRENGTHENING ANIMAL RABIES SURVEILLANCE IN THE REGION - OUR INITIATIVES"**

Organizing Secretary: Dr. Namita Joshi, Professor VPH

Co Organizing secretary: Dr Satyavrat Singh, Dr J. P. Singh

Guest Speaker: Dr. Sharada, R., Assistant Professor and Quality Manager, KVAFSU-CVA Rabies Diagnostic Laboratory, OIE Reference Laboratory for Rabies, Department of Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru

Date: 28th September 2020

2. **TITLE: "CAREER OPPORTUNITIES FOR VETERINARIANS IN WILD LIFE SECTOR"**

Date: 8th October 2020

Organizing Secretary: Dr. Satyavrat Singh

Dr. Bhoopendra Singh

Dr. J. P. Singh

Guest Speaker :Dr Sanjay Kumar Tripathi, Director Mumbai Zoo, Mumbai

3. **TITLE: CAREER OPPORTUNITIES FOR VETERINARIANS IN FOOD PROCESSING INDUSTRY**

Date: 6th November, 2020

Guest Speaker:Dr Ram Babu Sharma, National Coordinator

NAHEP-Innovation Grant Project

4. **TITLE: MEDICINAL PLANTS FOR PRIMARY HEALTH CARE OF LIVESTOCK**

Date: 4th December, 2020

Guest Speaker: Dr V Ranganathan, Professor and Head, Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Orathanadu, Thanjavur District, Tamil Nadu

Student Corporate Interaction

The college is continuously organizing student corporate interaction programs through webinars in post lock down period.

1. **TOPIC: NEGATIVE ENERGY BALANCE IN LIVESTOCK: AN UPDATE**

Date: 19th June, 2020

Organising Secretary: Dr D Niyogi

Guest Speaker:

Dr Amit Singh, Group Product Manager, Alembic Pharmaceuticals Limited

2. **TOPIC: TARGET 150 DAYS CONCEPT**

Date: 13th August, 2020

Guest Speaker :Dr Sanjay Awgahate ,
General Manager, Virbac India

Organizing Secretary:

Dr. Satyavrat Singh

Dr. J.P. Singh

3. **TOPIC: CAREER OPPORTUNITIES FOR VETERINARIANS IN CORPORATE SECTOR**

Date: 28th August, 2020

Guest Speaker :Dr Varun Ahuja, Lupin
Pharmaceuticals

Organizing Secretary:

Dr. Satyavrat Singh

Dr. J.P. Singh

4. **TOPIC: IMPORTANCE OF LIVESTOCK SECTOR AND CAREER OPPORTUNITIES**

Date: 30th October, 2020

Guest Speaker Dr Dinesh Singh
Rawat, Director Ruminant Business
unit MSD (Merck Sharp and Dohme
Corp)

Organizing Secretary:

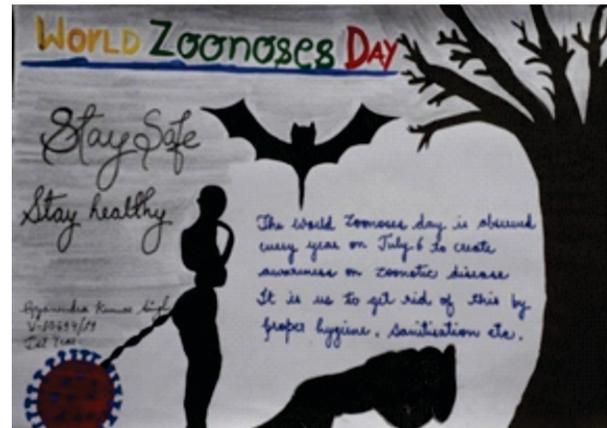
Dr. Satyavrat Singh

Dr Bhoopendra Singh

Dr. J.P. Singh

Student Activities

- **World Environment Day** was celebrated with school children and university students. To mark the day online quiz competition, elocution competition and painting competition were held.



Hand painting (World Zoonoses Day)



E poster (World Zoonoses Day)

- Online quiz competitions and Awareness Video clip making competitions were organized as to mark the **World Zoonoses Day** celebrations on 6th July 2020.
- Online Painting and essay competitions were organized as part of **World Veterinary Day-2020** celebrations on 25th April 2020 and around 20 students participated in the competitions.
- **World rabies day** was observed on 28th September to mark the contribution of Louis Pasteur in the field of vaccine



especially Rabies. A national level quiz was organized in which a total of 84 students participated. In addition a National level webinar was also organized.

- **World wild life week** was organized from 2nd to 9th October in which different activities especially crafted for different age groups were conducted at National level.

Other Activities

- Meeting of Institutional Animal Ethics Committee was held on Jan 10, 2020 and December 18th 2020. A total of 36 research proposals were evaluated by the IAEC.
- Department of Veterinary Physiology & Biochemistry organized Institute level Quiz competition on behalf of Society of Animal Physiologist of India on 20th Jan. 2020. Selected students were sent to Mathura to participate in All India Quiz Competition and secured **IInd position in North Zone.**

CLINICAL ACTIVITIES

College runs super speciality polyclinic



for animals as veterinary clinical complex (VCC). The VCC is equipped with latest diagnostic tools and facilities, which is providing veterinary assistance, vaccination, Artificial insemination and facilities of surgical operations to the animals of purvanchal region. Meanwhile, students are also getting the latest knowledge of animal treatment and diseases control. In the current year, in the wake of Covid -19, the college initiated its **telemedicine services** during lockdown which benefitted around 128 farmers. Online treatment consultations were provided to treat ailing cows, buffaloes, dogs, a parrot and a pigeon

College activities in news limelight

College of veterinary science and Animal Husbandry remained an attraction point for local news paper by orhanisation of various activities in the period of covid -19 pandemic. A series of webinars pertaining to carrear counseling, animal health and various social themes were organized that caught the attraction of print and electronic media.

PUBLIC HEALTH ACTIVITIES

Blood testing Camp was organized by Officer-In-Charge of Hospital in Collaboration with Department of Veterinary Physiology for university girls and working woman.



COLLEGE OF HORTICULTURE & FORESTRY



Dr. O.P. Rao, Dean

The College of Horticulture and Forestry (CHF) is located in main campus of A.N.D.U.A.T., Kumarganj, Ayodhya (U.P.). Initially the department of Horticulture was initiated in the year, 1977 and the work on Horticultural crops were started at the Crop Research Station, Masodha and shifted to the main campus of the University at Kumarganj. Later on, in the year, 1980 a separate department of Vegetable Science was established. The post graduate programmes were started in the year 1981 in College of Agriculture in disciplines of Horticulture and Vegetable Science. The department of Forestry was established in the academic year 1987-88, which was divided into two departments namely: (i) Department of Agroforestry and (ii) Department of Forest Ecology and

Environment with the establishment of College. The College of Horticulture and Forestry was established in 2006 with seven departments. (i) Fruit Science, (ii) Floriculture and landscaping (iii) Post-harvest Technology (iv) Vegetable Science (v) Medicinal and Aromatic Plants (vi) Agroforestry (vi) Forest Ecology and Environment.

The post graduate degree was started in discipline of agroforestry and Forest Ecology and environment in the year of 2009 and 2010, respectively. The new building of College of Horticulture and Forestry was constructed in the university campus in 2009 which was inaugurated by Hon'ble Vice-Chancellor Dr. Basant Ram on 11-12-2009. Presently following degree programmes are running in college.



S. No.	Name of degree programme	Discipline
1.	B.Sc. (Horticulture) Hons. (Vth Deans Committee)	Horticulture
2.	M.Sc. (Horticulture) Fruit Science & Ph. D. Horticulture (Fruit Science) (IVth Deans Committee)	Fruit Science
3.	M.Sc. & Ph. D. (Horticulture) Vegetables Science (IVth Deans Committee)	Vegetable Science
4.	M.Sc. & Ph.D. Forestry (silviculture & Agroforestry) (IVth Deans Committee)	Agroforestry

Objectives

- To provide teaching environment and facilities to develop human resources, who can able to take the responsibility and challenges of horticulture.
- To teach and train the students to make them resourceful and entrepreneurial.
- To provide technical and practical end to end exposure to students in field of horticulture for skill development related to production, value addition, management, marketing and self-employment.
- Establishment of nursery of fruits, ornamental, medicinal and aromatic crops and supply to research institute farmers.
- Landscaping and beautification of main campus
- To collaborate with national and international institution/ agencies involved in teaching, research and developmental programs in the field of horticulture and forestry.

Mandates

- To make provision for quality education

of rural people of Uttar Pradesh in different branches of Horticulture, forestry.

- Development of cultivar of different horticultural crops for eastern Uttar Pradesh.
- To provide good facilities for research network.
- To attain excellence in education, research and extension in the field of horticulture.
- To conduct location specific and need based research.
- To generate technologies for improving production and productivity of tropical crops.
- To implement effective extension programmes for efficient transfer of technology.
- To provide consultancy service in horticulture.

Number of student Admitted and Passed

Details of students passed, ongoing and admitted during session are given below:

Name of degree programme	No. of students admitted	No. of ongoing students	No. of students Passed
B.Sc. (Horticulture) Hons.	39	119	38
M.Sc. (Horticulture) Fruit Science	11	22	11
M.Sc. (Horticulture) Vegetable Science	13	26	13
Ph. D. (Horticulture) Vegetables Science	05	13	4
Ph. D. (Horticulture) Fruit Science	06	15	4
Ph. D. (Agro Forestry)	02	02	-
Ph. D. Forestry (Silviculture& Agroforestry)	02	02	-
Total	78	199	70

I. Admission (2020-2021)

Total 78 students were admitted during session 2020-2021. The branch wise details are given as above:

II. Online Orientation of fresher: Newly admitted students of UG, PG degree programme were acquired well with rules and regulations of the college/University just after completion of their registration.

III. Course Offered: Total 122 courses were offered in different degree programme in 1st&2nd semester 2020-2021.

IV (a). Experimental Learning Programme (ELP): In the session 2020-2021, 36 students of B. Sc. (Horticulture) final year were registered for ELP. Under ELP, students were involved in commercial Horticulture and processing of fruits and vegetables in the neighbouring nursery and fruit processing industry of student native villages/ town. The programme was undertaken as nursery management of fruits, vegetables and flowers concerning their raising technique, management and marketing. Under processing of fruits and vegetables students were gone to learn

practical processing technology of various seasonal fruits and vegetables regarding their processing of various products like jam, jelly, murabba, candies, pickles, squash, syrup, RTS etc.. In the end of semester students submitted work report and their performance were evaluated on line by a committee constituted by the Dean, college of Horticulture and forestry. Students completed their entire programme during lockdown period in the native village/ town.

IV (b). Rural Horticulture Work Experience (RHWE): RHWE programme was organized for B.Sc. (Horticulture) final year students. 36 students were registered for placement in the nearby village/town of their native place . In these placements, students fill up the proforma as provided by the coordinator. A students work in their villages/town accordingly. In the end of semester students submitted work report and their performance were evaluated on line by a committee constituted by the Dean, college of Horticulture and Forestry. 36 students were passed out in both the programme organized by CHF Horticulture. Students completed their entire programme during lockdown period.



V. Smart classrooms:

- a. One M.Sc. (Hort.) Fruit Science class room has been upgraded as smart class room.

Plantation and beautification:

Plantation: 3150 plants of fruit forestry and ornamental tree were planted by Hon'ble Governor of UP Smt. Anandi Ben Patel, Hon'ble Vice Chancellor, senior dignitary of central and state govt., scientist and staff members of this university.

Plantation at farmer's field

4000 plants were transplanted in the field of different farmers of eastern UP.

1. Academic Excellence

Student's performance in complete of ICAR-JRF examination 2020-21.

S.N.	Exam	Students Qualified (2020-21)
1.	ICAR-JRF	05

2. Faculty Achievements

Faculty received 01 Awards with 60 Publications, 09 Books, 15 Book chapters and 23 Articles

05 Student got Placements at UP state Govt.-3, CSIR institute-1 and Private University-1)

Projects running/ under process in the college:

- **Adhoc research project**
- Demonstration of drip irrigation / fertigation under diversified cropping system - (**Sanctioned**) (**R.K.V.Y.**)
- Renovation and establishment of New Polycarbonate green house and net

house for nursery production and cultivation.-**Sanctioned under R.K.V.Y.**

- Strengthening of Horticulture & Vegetable Experiment Stations from protection of stray Cattles.- **Sanctioned under process-R.K.V.Y**
- Establishment of Hi-Tech Floriculture Centre for Strengthening of Research and Development of Entrepreneurship Model: **Sanctioned under process-R.K.V.Y**

State : Non plan (100% funded by Up State Govt.):2

1. Production and processing of fruits in usar wasteland scheme.
2. Vegetable research.

National level ICAR Plan 75% funded by ICAR):6

1. All India coordinated research project on medicinal, aromatic plants and beetle vine.
2. All India coordinated research project on arid zone fruits
3. All India coordinated research project on agroforestry
4. All India coordinated research project on potato
5. All India coordinated research project on spices
6. All India coordinated research project on vegetable crops
7. MIDH (mission for integrated development of horticulture) 100% funded by ICAR/Central Government

Collaboration of Research work with other organization

Name of the project / scheme	Year of start	Funding agency and amount (lakh)	PI
1. Evaluation of Nano-fertilizers in potato	2020	IFFCO Ltd.(1.10)	Dr. R. K.Pathak
2. Evaluation of Nano fertilizers fertilizer in rice-wheat based cropping system	2019	IFFCO Ltd.(1.98)	Dr. R. K.Pathak
3. Evaluation of innovative products on vegetable crop	2020-21	Fertis India Pvt. LTD.(16.00)	Dr. G. C. Yadav

Training:

1. Training on Cultivation of spices and aromatic plants -FOUR
2. Medon par vrikshropan -one

Lecture Delivered:

Lecture delivered by Scientist in different webinar & training programme -36

Training Details:

1. Masala evam Sugandh Paudh ki Unnat Kheti at ANDUAT Kumarganj Ayodhya on date 8 September 2020.
2. Masala evam Sugandh Paudh ki Unnat Kheti at ANDUAT Kumarganj Ayodhya on date 9 September 2020.
3. Masala evam Sugandh Paudh ki Jaivik Kheti at Muwari village in Amethi on date 26 February 2021.
4. Masala evam Sugandh Paudh ki Jaivik Kheti at Arawal village in Sultanpur on date 17 March 2021.

Research Activities and Achievements:**Variety released:**

Variety identified for release by AICRP at national level

1. Narendra Aonla -25 & 26
2. Narendra bael -10
3. Bottle Guard - Narendra Kamna (NDBG-16)

Aonla - Narendra Aonla-25

Distinct characters of NA-25 (Narendra Aonla-25)

1. Early flowering (starts from last week of February)
2. Start bearing in 4th year
3. Early ripening (November) and earliest among the released varieties.
4. Fruit shape- Flattened round.
5. Average yield 34.73 kg/plant, fruit weight 52.76g, fruit size 4.18 cm x 4.41 cm, stone shape-round and size- small, total number of seed 06, segments-6, TSS pulp 11.50°Brix, acidity (0.89%) and vitamin C-545.93 mg / 100 g pulp.



Aonla - Narendra Aonla - 26

Distinct characters of NA-26 (Narendra Aonla-26)

1. Early flowering (starts from last week of February)
2. Full ripening in the month of December.
3. Attractive bright green yellow colour of fruits with smooth thin skin of complete ripened fruits.
4. Fruit shape- Flattened round.
5. Average yield/plant is 55.56 kg, fruit weight 45.68g , fruit size 3.93 cm x 4.15 cm, total number of seed 06, segments-6, TSS pulp 10.85°Brix, acidity (1.10%) and vitamin C 483.68 mg / 100 g pulp.



Narendra Bael-10

Distinct characters of bael ND/AH-10 (Narendra Bael-10)

1. Early ripening (March) and earliest among the released varieties.
2. Compact foliage, less fruit sunscald and very less thorns under subtropical-arid environment and starts bearing in 4th year.
3. Drought tolerant, luxuriant growth and higher fruit yield under less precipitation and high temperature.
4. Attractive light yellow colour of pulp of complete ripened fruit.
5. It is highly suitable for powder and RTS owing to attractive pulp colour and fibre content.



Fig. Plant and Fruit ND/AH-10



Fig. Ripened fruit of ND/AH-10

Bottle Guard -Narendra Kamna (NDBG-16)

Characteristics:

Season-Zaid and Kharif

Recommended for Zone- Zone I(J&K and Uttarkhand) and VIII (Karnataka , TN and Kerala)

Features- Long fruit shape

Average Yield-270.83

Potential Yield-542.2 q/ha

Breeder- Dr. Gulab Chand Yadav



Fig- Narendra Kamna

Achievements:

Department of Fruit Science

AONLA

On the basis of pooled over 5 years data of aonla germplasm, the maximum yield was recorded in genotype NA-26 (86.67 q/ha) followed by NA-25 (54.17 q/ha) and NA-27 (38.45 q/ha) along with better quality parameters. Hence it may be concluded that all 3 genotypes recommended for commercial cultivation.

BAEL

Twelve germplasm (ND/AH-8, ND/AH-9, ND/AH-10, ND/AH-11, ND/AH-12, ND/AH-16, ND/AH-17, ND/AH-21, ND/AH-22, ND/AH-25, ND/AH-26, ND/AH-27) of bael were evaluated. On the basis of pooled over 5 years data, the maximum yield was recorded in genotype ND/AH-10

(212.85 q/ha) followed by ND/AH-17 (211.38 q/ha), ND/AH-16 (203.53 q/ha) and ND/AH-8 (148.57 q/ha) along with better quality parameters. Hence it may be concluded that all 4 genotypes recommended for commercial cultivation.

Epidemiological Studies on Aonla Rust:

On the basis of 16 years epidemiological studies of aonla rust, it has been observed that aonla rust occurs in eastern UP from 3 September to December when temperature range between 26.41 to 33.0°C and humidity 70.0 to 87.0% with sunshine 5.94 hrs/day found favourable for the initiation of the disease. The incremental disease in the incidence of the rust showed linear pattern from September to January of each year with its peak in the month of December.

Promising genotypes in pipeline

Aonla: NA-25, NA-26, NA-27, NA-29, NA-31, NA-32, NA-33 and NA-34

Bael: ND/AH-8, ND/AH-9, ND/AH-10, ND/AH-11, ND/AH-12, ND/AH-16, ND/AH-17, ND/AH-21, ND/AH-22, ND/AH-25, ND/AH-26, ND/AH-27 and NB-19, NB-21, NB-22 and NB-23.

BER: Narendra Ber Selection-9, Narendra Ber Selection-10, Narendra Ber Selection-11, Narendra Ber Selection-12, Narendra Ber Selection-13, Narendra Ber Selection-14, Narendra Ber Selection-15 and Narendra Ber Selection-16.

Jamun: CISH-J-37, CISH-J-42, and Narendra Jamun-6, Narendra Jamun-7, Narendra Jamun-8 and Narendra Jamun-9.

Introduction of improved cultivars / high density plantation:

Introduced following Fruit crops with high density plantation at MES Horticulture



S.N.	Name of fruit crop	Variety	Area/Number	Type of plantation
1.	Guava	L 49	0.3 acre	High density
2.	Mango	PusaArunima Pusa Surya PusaLalima Pusa Pitamber PusaShreshtha PusaPratibha	20 scion shoot of each cultivar were collected from the IARI, Pusa, New Delhi and propagated on seedling root-stock of mango	Developed plants will be maintained in germplasm block of mango for teaching and research purposes
3.	Bael	CISH-Bael, Goma Kirti, Goma Yashi, Thar Divya	06 06	Varietal
4	Dragon Fruit	Red pulp	100 plants	Teaching and research purposes

Department of Vegetable Science

Recommendation-

- On the basis of 5 year result it has been concluded that planting of Potato at optimum date (25th Oct to 5th Nov.) harvested at 90 days and transplanting onion thereafter is recommended for Potato- Onion cropping sequence for Eastern U.P.

Department of Medicinal and Aromatic Plants:

1. Survey of diseases in medicinal and aromatic plants has been done at the N. D. University campus during 2020-2021.. The major diseases were found leaf spot in Aloe vera ,ritha, bahera, latgira and guruch., Virus disease was reported in Gurmar and Akarkara. Wilt disease was found in Bauchi and root

rot in Kalmegh. The maximum disease intensity was recorded in Soft rot of Aloe vera (40-45%) followed by leaf blight of Mulethi (35-40%) and leaf spot of Aloe vera (35-40%).

Leaf spot diseases management in Aloe vera.

The minimum PDI and plant mortality were recorded in the plants treated with Soil application of FYM (1.0 kg/m²) enriched with Trichoderma + Pseudomonas talc based formulation each @ 2.0% at planting time, dip the suckers in Carbendazim 0.1% solution at the time of planting followed by the plants treated with Soil application of FYM (1.0 kg/m²) enriched with Trichoderma + Pseudomonas talc based formulation each @ 2.0% at planting time. On the onset of disease symptoms three spray of Pseudomonas fluorecence @ 2.0% of talc based formulation and Neem oil @ 300 ppm.

Downy mildew management in opium poppy

The minimum disease intensity and disease severity of downy mildew of opium poppy was recorded in Furrow application of FYM (500 g/M^2) enriched with *Trichoderma harzianum* + *Pseudomonas fluorescens* @2.0% 4-5 days prior to sowing. Seed treatments with streptomycin sulphate @0.030% (300ppm) and Metalaxyl @ 2.5g/Kg. On appearance of disease symptoms spray of *Trichoderma harzianum* and *Pseudomonas fluorescens* @0.5%. Second and Third spray with Streptomycin sulphate @0.030% and metalaxyl @0.25% at 15 days interval

Diseases Management in Basil (*Ocimum basilicum*)

The maximum fresh and dry leaf weight was recorded from the plants treated with Soil application of FYM (1.0 kg/m^2) enriched with Trichoderma + Pseudomonas talc based formulation each @ 2.0% at planting time. On the onset of disease symptoms three spray of *Pseudomonas fluorescens* @ 2.0% of talc based formulation and Neem oil @300 ppm followed by the Soil application of FYM (1.0 kg/m^2) enriched with Trichoderma + Pseudomonas talc based formulation each @ 2.0% at planting time. On the onset of disease symptoms three spray of Tebuconazole + Trifloxystrobin @0.10% with 15 days interval.

Aloe vera

Among 25 germplasm screened against soft rot disease of Aloe vera varied significantly and the minimum PDI (percent disease intensity) was observed in IC- 310611 (10.22) followed by IC- 285626 (10.56). However, the germplasm IC- 283610 revealed the highest PDI (48.33).

Kalmegh

Minimum percept disease intensity

was observed in Soil treatment with *Pseudomonas fluorescens* + Trichoderma viride @ 3.0 g/m^2 with 20t FYM/ha + Neem Cake @2.0t/ha (28.00) followed by 20t FYM/ha + Neem Cake @2.0t/ha (31.33), Soil treatment with *Pseudomonas fluorescens* @ 3.0 g/m^2 with 20t FYM/ha + Neem Cake @2.0t/ha and Soil treatment with *Trichoderma viride* @ 3.0 g/m^2 with 20t FYM/ha + Neem Cake @2.0t/ha (34.66). Where as in control PDI was found (66.66).

Department of Agroforestry:

- As per organic fertilizers based experimentation, the maximum grain yield of paddy var. Sarjoo-52 (1.94 t ha^{-1}) has been obtained with the application of FYM 10 t ha^{-1} and the higher grain yield of wheat var. Kundan (1.91 t ha^{-1}) was recorded by the application of same treatments i.e. 10 t ha^{-1} FYM under *Dalbergiasissoo* based agri-silviculture system.
- Significantly higher turmeric rhizome yield ($5.83\text{ t ha}^{-1}\text{ yr}^{-1}$) has been obtained due to application of 50% recommended dose of NPK ($120:80:80\text{ kg ha}^{-1}$) + 50% FYM dose (recommended dose 20 t ha^{-1}) as compared to other treatments under agri-silvi-horti system.
- In the *Dalbergiasissoo* based silvi-pastoral system, the maximum annual green fodder yield was found for *Pennisetum purpureum* (43.24 t ha^{-1}), followed by *Panicum maximum* (31.12 t ha^{-1}) and *Brachiaramutica* (29.06 t ha^{-1}).
- Clone PS-52 of shisham has been found best under eastern UP condition. This clone have better plant height, collar diameter, number of branches and crown spread.



- Under *Eucalyptus* based agroforestry system for Indo-gangetic plains, Moong-Wheat crop rotation was found better in respect of more grain yield as well as more plant height and collar diameter of *Eucalyptus*



Agroforestry Systems

Extra-curricular Activity

Special contribution in research/developmental work during the year

- Wheat T/F seed NW-5054 variety 19.6 quintal seed distributed to SC farmers of SaraiyaChamaran and 10.7 quintal distributed in Akbarpur village, Dariyabad Block.
- PVC Irrigation Pipe distributed to SC farmers of SaraiyaChamaran and Akbarpurvillage, Dariyabad Block District, Barabanki during 2020-2021 under SCSP grant.
- Wheat Breeder seed NW-5054 three quintal obtained from N.D.U.A.T.,

Kumarganj-Ayodhya, distributed to SC farmers of Akbarpur village, Dariyabad Block under All India Coordinated Research Project on during 2020-21, and also PVC Irrigation Pipe distributed to SC farmers of SaraiyaChamaran and Akbarpur village, Dariyabad Block District, Barabanki during 2020-2021 under SCSP grant.

Extension Works



Visit of potato experiment by Monitoring team (AICRP-Potato)

COLLEGE OF FISHERIES



India stands second in the world in aquaculture and third in global fish production. With the vision of creating new horizons in the field of fisheries in the state of Uttar Pradesh, the College of Fisheries started in year 2006-07 and first Fisheries College of the state. At present, the institute offers Bachelor of Fisheries Science (B.F.Sc.) along with Master of Fisheries Science (M.F.Sc.), which has been started in the Department of Aquaculture and Fisheries Resource Management with two students in each department with the total strength of four students.

Departments:

Seven departments have been functioning in the College of Fisheries at present

S.No.	Department
1.	Aquaculture
2.	Fisheries Resource Management
3.	Aquatic Animal Health Management
4.	Aquatic Environment Management
5.	Fish Processing Technology
6.	Fisheries Engineering
7.	Fisheries Extension, Economics and Statistics

Degree Programmes:

B.F.Sc. (Bachelor of Fisheries Science)

B.F.Sc. (Bachelor of Fisheries Science) is a four year degree programme. It is practical oriented professional course in which detailed theoretical instructions and intensive practical training are imparted in the field of fisheries sciences like pisciculture, post harvest technology, canning & packaging, value addition, marine biology & fisheries economics and extension education. The recommendations of Fifth Dean's Committee of ICAR are being followed from the session 2016-17 with minimum total credit hours of 180. The students are undergoing Student READY Programme (SRP) in the fourth year of their degree programme. In the SRP, the students are attached to various aquaculture farms, seed production units, feed processing mills and fish processing industries at various states like Maharashtra, Gujarat, Haryana and Madhya Pradesh to learn the intricacies of industries. During the recent pandemic situation the students have not let to face any difficulty to various aspects of practical experience which makes them efficient in the concerned field of training.



M.F.Sc. (Master of Fisheries Science)

M.F.Sc. (Master of Fisheries Science) is a two year degree programme and the students are offered a minimum total credits hours of 58. The college offers masters in Aquaculture and Fisheries Resource Management. The students have to perform a research work during the course of degree program and their thesis is to be submitted under their academic advisor in their respective fields.

Student Strength:

The students intake in B.F.Sc. is twenty six (26) and four (4) in M.F.Sc., two in each Department of Aquaculture and Fisheries Resource Management. The total number of students in the college in the present academic year is 91 including M.F.Sc. students. During last eight years, 237 students have been passed out in total.

ACADEMIC EXCELLENCE

Achievements

It is a matter of proud for the College, Mr. Devarshi Rajan (Batch 2016-20) topped the Post Graduate Entrance Exam (U.P.C.A.T.E.T.) for the year 2020-21. Mr. Alok Kumar (Batch 2016-20) grabbed 9th rank in the same entrance exam. Ms. Arya Singh (Batch 2016-20) is selected for Masters in the department of Aquatic Animal Health Management in Central Agricultural University, Tripura. A number of meritorious students are also getting higher education in CAUs and different SAUs.

Online classes

To maintain the teaching quality standard faculty of the College are imparting online lectures and getting regular feedback from the students so that their study problems may be resolved.

Experimental units

24 ponds (10X10 m) have constructed at fish farm so that student's research work in the department of Fishery resource management and Aquaculture may be conducted successfully.

Ornamental fishery unit

Ornamental fishery unit in college premises is fully functional. There have breeding of indigenous fishes is being done.

Placements:

Mr. Shiv Janam Verma and Mr. Sandeep Mishra (Batch 2016-20) were selected as Young Professionals in ICAR- CIFRI and ICAR-NBFGR respectively. Dr. Sanjeev Kumar, Alumnus of the college was selected as Research Associate in ICAR- CIFRI. Dr. Pooja, Dr. Jitendra, Dr. Mukta, Mr. Ashish, Mr. Sumit, Mr. Girish, Mrs. Richa and Dr. Vinod were selected as Assistant Director Fisheries, Government of U.P in December, 2020. The students which have been passed out are working in different sectors like corporate, banks as Specialist Officers, private companies, executives, farm managers, JRFs, SRFs, RAs, Teaching associates, Guest Faculty, Fisheries Inspectors, Fisheries officers, Assistant Directors. In other versatile sectors some students have been giving their services as Teachers, Assistant Professors, ARS Scientists, SMSs and other reputed organizations. Some students are also enhancing their entrepreneurship skills in fish and shrimp farming practices.

Student Awards:

The students begged many accolades in different college and university level cultural and literary competitions like Elocution, Painting, Rangoli, Extempore, Poster, Seven slides and Quizzes. Mr. Brahmadev, Ms.

Madhuri, Mr. Surendra won the university level Rangoli Competition organized on the occasion of World Fisheries Day, 2019. Miss Katyayani Singh was felicitated with runner-up prize and a certificate of appreciation in university- level Poster and Elocution Competition held on the occasion of World Fisheries Day, 2019 and World Environment Day, 2020 respectively.

FACULTY ACHIEVEMENTS:

Awards:

Outstanding Achievement Award-2020 – Outstanding contribution in the field of fisheries was bestowed to Dr. C.P.Singh on the occasion of 4th International conference: Global approaches in Natural Resource Management for climate Smart Agriculture (GNRSA-2020) during Pandemic Era of Covid-19 organized during 26-28 February, 2021. Dr. Laxmi Prasad was bestowed with 'Best Teacher Award' by the university at Teacher's Day Program, 2020.

Tika Utsav

During pandemic covid-19, to make vaccination successful students and their family member were motivated for vaccination to minimize the outbreak of corona. A covid-19 help desk has been set up in college of fisheries entrance gate to care the faculties and other visitors of the college.

District level scientific council meeting attended

Faculty of fisheries attended the district level scientific meeting of Ayodhya, Devipatan and Gorakhpur mandal time to time

Sl. No.	Topic	Place
1.	District level Scientific council meeting	Collectorate Bahraich
2.	District level Scientific council meeting	Collectorate Gonda
3.	District level Scientific council meeting	Collectorate Bahraich
4.	Scientific Advisory meeting (online meeting)	KVK, Mankapur
5	District level Scientific council meeting	Gorakhpur
6	District level Scientific council meeting	Ayodhya

Webinar Attended

S. No.	Date	Topic	Organiser
1.	23.01.2021	Covid19 Pandemic: Concerns & Perspectives	Organised by College of Biotechnology, GADVASU, Ludhiana
2.	20.02.2021	Vocal for local-Moving towards self - reliant India.	ASSOCHAM, New Delhi

RESEARCH

Project running

- A project funded by UPCAR Lucknow “Development of suitable module to harvest the optimum potential of fish production in sodic soil of Uttar Pradesh” is being run currently.
- A project for fish farm modernization has been sanctioned under R.KVY Scheme of I.C.A.R



EXTRA CURRICULAR ACTIVITIES

Since co-curricular activities play an important role in overall growth of a student, various literary and cultural activities are organized yearlong in the College. An online orientation programme was organized for the first year students of Batch 2020-21 by the college. On the occasion of Agriculture Education Day (3rd December, 2020) an online debate and painting competition was organized by the Fisheries Committee. Fish Farmers Day was celebrated online by organizing an online Farmer Interaction Programme on 10th July 2020. A training was organized for the fish farmers of the nearby areas on the occasion of World Fisheries Day, 2020. Along with these, Fresher's Farewell parties and Swachha Bharat Abhiyan are also organized in the college. Scientists of the college participate actively in Kisan mela, Kisan goshti, Farmer - Scientist interaction meets, Kisan call centers, Krishak help line services, TV&radio talks.



A view of Posters and rangoli competition organized for the students in College of Fisheries

INFRASTRUCTURE:

The College building has four undergraduate class rooms and seven post-graduate class rooms along with one examination hall, one committee room, two central laboratories, six research laboratories, one ornamental fish breeding unit and two wet laboratories. Information Centre with models of fishing crafts, gear, aquatic macrophytes, RAS system and samples of fish products, by-products and feed ingredients. Recently two

laboratories have been upgraded and equipped with chemicals and new equipments. The college has a well managed library containing latest books, magazines and manuals published in fisheries and related fields. A museum having common fish species of marine and freshwater specimen is also established.

Fisheries Entrepreneurship Training Centre:

College of Fisheries is also involved in extension programmes to enhance the fish production specifically at the village ponds. For extension activity "Fisheries Entrepreneurship Training Centre" at district Gonda (U.P.) has been established with the financial assistance of State Government to further increase the training and extension activities.

Recently a goshti was organized on 18.01.2021, was inaugurated by Hon'ble Agriminister and chaired by Hon'ble Vice-Chancellor A.N.D.U.A&T, Kumarganj, Ayodhya.

Instructional fish farm:

The total area for the instructional fish farm is 4.0 ha consisting of nursery ponds, rearing ponds and grow-out ponds having prime population of Indian major carps and Exotic major carps. Recently twenty one ponds are under construction for post graduate student experimental trials units. An integrated paddy-cum-fish culture unit is also being developed in the farm for farmer's demonstration purpose. Earthen ponds have also been constructed to store the waste water from the hostels as well as the dairy farm and trials on waste water utilization are undergoing.

A circular carp hatchery and cemented nursery tanks were constructed under the 'Mega Seed Project' at the farm and are being

currently used for practical and commercial seed production purposes. Successful carp breeding and seed production was performed in the hatchery during the breeding season and fish fingerlings are being sold to the farmers at

rational prices. A trial on *Pangasius* culture was performed in the farm besides carp polyculture.. The fishes of the farm are used for different practical and breeding purposes for students. Rest of fish are sold time to time.



Views of fish seed hatchery, culture pond, Azola for fish feed and fish cum vegetable integration system
 Activities at a glance:



Fish farm at College of Fisheries activities: Pond reclamation, seed stocking, liming and slurry preparation for feeding to fishes



Hon'ble Agriculture minister and Hon'ble Vice-Chancellor graced the Fisheries Goshti at F.E.T.C, Colonelganj, Gonda.



MAHAMAYA COLLEGE OF AGRICULTURE ENGINEERING & TECHNOLOGY, AKBARPUR, AMBEDKAR NAGAR



The Mahamaya College of Agricultural Engineering and Technology (MCAET), Ambedkar Nagar is located about 52 km away from Faizabad on Faizabad- Akbarpur (Ambedkar Nagar) National highway (NH 30) near "Shiv Baba" a religious place. The campus comprises the college buildings, boys hostels, girls hostel, guest house and residential buildings for faculty members and supporting

staff. The teaching Programme is conducted in B.Tech. (Agricultural Engineering), B.Tech. (Mechanical Engineering) and B.Tech. (Computer Science & Engineering)

ACHIEVEMENTS 2020-21

Teaching:-

1. Number of Students in 2020-21

• Under graduate Program

Stream/Year	First Year	Second Year	Third Year	Fourth Year	Total
B. Tech (Agricultural Engineering)	26	23	20	25	94
B. Tech (Mechanical Engineering)	-	04	09	03	16
B. Tech (Computer Science & Engineering)	-	07	07	02	16

• Post graduate Program

Stream/Year	First Year	Second Year	Total
M. Tech. Agricultural Engineering (Soil and Water Conservation Engineering)	01	-	01

2. Orientation of freshers: Newly admitted B. Tech. students were acquired well with rules and regulations of the college/University just after completion of their registration and their fresher's party was organized by seniors students.

3. Courses offered: Total 75 courses 240 Credit hours were offered in 1st Semester, Session 2020-21 and 74 Courses 221 Credit hours were offered in 2nd Semester, Session 2020-21. The classes were regularly conducted as per University norms. Due to pandemic of Covid 19 the classes as well as examination of session 2020-21 has been conducted through online using Google classroom platform.

4. Engagement of Guest Faculty: Total of 10 Guest Faculty comprising three in Mechanical Engineering, three in Computer Science & Engineering, one in Electrical & Electronics Engineering, one in Mathematics, one in Civil Engineering and one in Physics were engaged for teaching in 1st Semester as well as 10 Guest Faculty were engaged in 2nd Semester, Session 2020-21. Besides, some other courses likewise Soil Science, Agronomy were taught by the faculty available from Main Campus, Kumarganj.

5. Project Report: Students of final year B. Tech. (Agricultural Engineering/Mechanical Engineering/Computer Science & Engineering) submitted the project reports followed by Power Point Presentation and Viva-Vice. (Annexure-3)

6. Convocation: 22nd convocation was held in 12 March 2020 and 114 students of the college were awarded degree of B.Tech. (Agricultural Engineering, Mechanical Engineering and Computer Science & Engineering).

7. Scholarship: The students of our college avail their scholarship from Samaj Kalyan UP Government and ICAR New Delhi.

8. Hostel Accommodation: Keeping paucity of accommodation in campus, freshly enrolled students of all streams were preferably accommodated in Boys and all girl students in Girl Hostel available in the campus.

Anti Ragging squads were formulated and executed very sincerely and effectively at Campus level.

9. Library services: Library is well equipped with 3424 books, 05 Almirah, 39 Book Shelf to contain books, Newspapers and Magazines are also subscribed for the benefit of students.

10. Students Performance in National Examinations

Sr. No.	Name of Examination	Number of Students qualified
1	ICAR JRF	5
2	CSIR	2
3	GATE	3

11. Placement: A number of students have been placed in various reputed organization like Banks (PSUs), Tractor Company and Irrigation Equipment Manufacturing Company, Ordnance Factory and Software Companies etc. Further, a number of students have also gone for higher education like M.Tech. Programmes in reputed Institutions all over India. The details of placement are given below:-

- 5 Student have been Placed through on campus placement in M/s Radhika Biotech, Agra



A view of On campus placement in
M/s Radhika Biotech, Agra

Area of Placement	Percentage (Approx.)
Tractor Industries	40%
Irrigation Industries	10%
Bank and Financial Institutions	03%

12 Games and Sports: Students play Cricket, Basket ball and Volley Ball at college level in available facility.

13. Research Project Submitted:-

In UPCAR

1. Status and Prospects of Micro Irrigation System
2. Self Cleaning System for small scale solar PV Systems
3. Establishment of Agro Processing Centre
4. Briquetting of Paddy Straw
5. Active Packaging Technology of Mango for Commercial Adoption

In RKVY

1. Establishment of Solar Park and Solar Tree for promoting Farmers/Small Entrepreneurs"
2. Development of Different Crop Residue Management Practices
3. Establishment of Computer Aided Manufacture (Production of Agricultural Machinery) Center for Farmers and Entrepreneurs

4. Strengthening of Food Process Laboratory for Doubling Farmers' Income Establishment of High Pressure Processing Unit for Doubling Farmers' Income

Research Project Approved

1. Establishment of Solar Park and Solar Tree for promoting Farmers/Small Entrepreneurs"
2. Development of Different Crop Residue Management Practices

14. Extension: Scientists of MCAET actively participated in Kishan Melas at Main Campus Kumarganj and also participated in Ghosthi organized at block levels of Distt. Ambedkar Nagar.

15. AMS Implementation

Registrations of all students and faculty member have been done on AMS System successfully and further implementation is going on.

16. National Webinars

- Various national and International webinars on important topic of current scenario have been attended by faculty
- Conduct a National Webinar on protective Cultivation (17-02-2021) organized by MCAET by MCAET Ambedkarnagar

17. Extra Curricular Activities

1. Plantation at M.C.A.E.T campus were done.
2. Fresher's Day was organized.
3. Engineer's day and Vishwakarma Puja were celebrated.
4. Gandhi Jayanti/ Shashtri jayanti/ Sardar Ballabh Bhai Patel jayant/ Acharya Narendra Dev Jayanti were Celebrated

COLLEGE OF COMMUNITY SCIENCE



Community Science is an applied and professional discipline that prepares individuals to obtain recent scientific information in both urban and rural areas. Its scope is not limited to improving home and family life only, but this education plays a key role in the welfare of the society and empowerment of women. It has ample scope for practical family applications and career opportunities. It has necessitated the organization to remain aligned with changing times and to move the goals to a wider perspective than those previously conceived.

The college is committed to provide education in 5 streams viz. Food Science and

Nutrition, Human Development and Family Studies, Family Resource Management and Consumer Science, Textiles and Apparel Designing and Extension Education & Communication Management as per the recommendation of 5th Dean's Committee. The college focuses on developing skills and strengths of the students based on scientific principles and knowledge acquired for day-to-day living; promotion of analytical abilities of students towards innovative research to augment the quality of life of family, community and industry in the changing scenario, enhancing entrepreneurial skills for professional careers.



Student's Status College of Community Science :

Parameters	Numbers			
	Bachelor's	Master's	Ph.D.	Total
Intake (1 st Yr)	46	10	4	60
Enrolled (1 st Yr)	20	2	3	25
Passed Out	26	1	Nil	27

Departments and Facilities:

The college has five departments –

1. Department of Food Science and Nutrition

2. Department of Human Development and Family Studies
3. Department of Family Studies and Resource Management
4. Department of Textiles and Apparel Designing
5. Department of Extension and Communication Management

All the departments are equipped with all facilities needed for community science education and research.

RESEARCH PROJECTS SUBMITTED

SN	Title of project	Year of submission	Submitted To	PI/ Co PI
1	Quality evaluation of fruits, vegetables and other agricultural products	2020	RKVY	Dr.Sadhna Singh/ Co PI
2	Training and Demonstration center for skill development for women and youth entrepreneurship	2020	RKVY	Dr.Sadhna Singh/ Co PI
3	Ergonomic Laboratory for Ergonomic Risk Analysis and Reducing Health Hazards of Farm Women	2020	RKVY	Dr. Abha Singh

EXTRA- CURRICULAR ACTIVITIES

<ul style="list-style-type: none"> • Three layered cotton mask prepared and donated to district Authorities for distribution to the needy people during Covid Pandemic from 17 March- 17 April, 2020 	
<ul style="list-style-type: none"> • Online recipe competition was organized on the occasion of Baishakhi Celebration on 14 April, 2020. 	
<ul style="list-style-type: none"> • Online Poster Competition on the occasion of B.R. Ambedkar Jayanti on 14th July, 2020 was organized. 	

- 3 days online National Webinar was organized from 22-24 June, 2020 on which was inaugurated by Hon'ble Vice Chancellor Dr. Brijendra Singh.



- Online National Nutrition Week Celebration was organized on Poster Making competition, Slogan writing Competition, Essay writing Competition, Self-written poem recitation, Cartoon Making Competition from 1-7 September, 2020.



- Farm women's Day Celebration was organized Demonstrations to farm women on 15 October, 2020 on Sehjan based recipes, Home-made weaning food, Mask Mking, Rangoli and Kohbar design.

- Children's Day Celebration was organized on 14 November, 2020 on Online Poem recitation, speech and art competition.



- Participated Kisan Mela 20-22 December, 2020 and Exhibits on Sehjan based recipes, Processed products and Handicraft items etc were displayed.



- Acupressure and Color Theray Lecture and demonstration on acupressure and color therapy was given by Dr. Navita Srivastava on 12 January, 2021.





- Mission Shakti was organized on 4 March, 2021 and Deputy SP UP police Dr. D.K. Yadav delivered lecture on women safety and security



- Women empowerment through skill development was organized from 5-6 March, 2021 and the Embroidery training for adolescent girls and women were also organized on this occasion.
- International Women's Day was organized on 8 March, 2021 and Lecture were organized for adolescent girls and women and Women entrepreneur were felicitated

Honors and Awards

1. Dr. Suman Prasad Maurya Conferred Best Teacher Award -2019-2020 for outstanding Teaching work from Acharya Narendra Deva University of Agriculture and Technology, Kumarganj Ayodhya on 5th September 2020
2. Dr. Abha Singh awarded by Yashasvi Samman in recognition of Service for

Science and Society awarded by Royal Association for Science led Socio cultural Advancement. (RASSA) on 1st Nov. 2020

3. Dr. Sadhna Singh appointed as a master trainer for online training program on "Grain Processing" under PM Formalization of Micro Food Processing Enterprises (PM-FME) Scheme.

STUDENTS AMENITIES

STUDENTS' PROFILE

The total strength of the students on roll in the University is around two thousands. Hostel facilities are provided to both boys and girls in all the teaching campuses of the University. A Dean Students' Welfare is appointed by the University to look after the interests of the students. The University

provides all encouragement for sports and extra-curricular activities through several incentives and resultantly. Several students have achieved distinction in sports, games and cultural activities both at the university and state levels. The University teachers conduct coaching classes for students appearing in ICAR fellowship examination.

Students Status in University in all Constituent Colleges, Year 2020-21

S. N.	Name of College	Parameters	Numbers of Students			
			Bachelor's	Master's	Ph.D.	Total
1	College of Agriculture (Main Campus & Azamgarh)	Intake (1 st Yr)	221	171	113	505
		Enrolled (1 st Yr)	204	130	32	366
2	College of Horticulture & Forestry	Intake (1 st Yr)	48	35	17	100
		Enrolled (1 st Yr)	43	24	15	82
3	College of Community Science	Intake (1 st Yr)	56	13	05	74
		Enrolled (1 st Yr)	13	02	03	18
4	College of Fisheries	Intake (1 st Yr)	30	05	-	35
		Enrolled (1 st Yr)	21	03	-	24
5	College of Veterinary Science & Animal Husbandry	Intake (1 st Yr)	78	68	49	195
		Enrolled (1 st Yr)	75	19	04	98
6	College of Agricultural Engineering & Technology	Intake (1 st Yr)	69	10	-	79
		Enrolled (1 st Yr)	26	01	-	27

Category wise number of students in the University during the year 2020-21

S. No.	Class	No. of Students in different categories						
		SC	ST	OBC	EWS	General	Foreigner	Total
	Bachelor's	77	05	182	36	83	-	383
	Master's	38	02	68	06	65	-	179
	Ph.D.	07	-	21	08	18	-	53



Gender Pattern amongst Students Enrolled in University

S. No.	Name of College	Sex	Numbers (including 1 st , 2 nd , 3 rd , 4 th , 5 th and 6 th year) as applicable			
			Bachelor's	Master's	Ph.D.	Total
1	College of Agriculture (Main Campus & Azamgarh)	Male	673	206	86	965
		Female	81	41	11	133
		Total	754	247	97	1098
2	College of Horticulture & Forestry	Male	157	44	31	232
		Female	15	07	04	26
		Total	172	51	35	258
3	College of Community Science	Male	-	-	-	-
		Female	58	04	03	65
		Total	58	04	03	65
4	College of Fisheries	Male	76	06	-	82
		Female	09	01	-	10
		Total	85	07	-	92
5	College of Veterinary Science & Animal Husbandry	Male	199	37	15	251
		Female	48	04	01	53
		Total	247	41	16	304
6	College of Agricultural Engineering & Technology	Male	107	01	-	108
		Female	15	-	-	15
		Total	122	01	-	123

Convocation Held

22th Convocation of the University was held on 12th March 2021. On this occasion Dr. Ramesh Chand, Member NITI Aayog and Dy. Director General (Education), Division of Agriculture Education, Krishi Anushandhan Bhawan, New Delhi was the Guest of Honour and honoured with Doctor of Science during this occasion.

Hon'ble Governor and Chancellor of the university Smt Anandiben Patel awarded a

total of 588 degrees comprising of 402 Under Graduate, 139 Post Graduate, and 47 Ph.D. students.

- **Medals awarded to students during 22nd convocation:-**

Name of medal	UG+PG
Chancellor's Medal	06
Vice-Chancellor Medal	11
University Gold Medal	08
Total -	25

DIRECTORATE OF RESEARCH

Dr. Bijendra Singh

Director, Agricultural Experiment Stations

SEED TECHNOLOGY

- The old seed lots of preceding year were seemed to be not-revalidated for pursuing crops season in wheat crop.
- Hydropriming and seed coating with drought alleviating bacteria+ biogrow followed by hydropriming and seed coating with Bio NPK treatment could be utilized for enhanced seed quality parameters i.e. first count, germination, vigour index-I, vigour index-II, speed of germination, final plant establishment and yield in lentil and fieldpea crops.
- Foliar spray of Salicylic acid @400ppm could be exploited to increase number of primary and secondary branches per plant, total number of siliqua per plant, plot yield and harvest index in mustard crop.
- Emamectin benzoate (Proclaim 5 SG) @ 40mg /kg seed was found superior in term of germination (88.3%) with 0.7 % insect damage among all the treatment. Among botanicals, NeemAzal 10,000ppm @ 1.5ml/kg seed could be considered for standard seed germination (84.7%) with 1.98% insect damage

followed by Acorus calamus TNAU Formulation @10ml/kg which was at par with Emamectin benzoate @ 40mg /kg seed. However, all the botanicals were found at par with Deltamethrin 2.8 EC @ 0.04 ml/kg seed.

- Spraying of Emamectin Benzoate 5 SG @0.3ml/L was found the best treatment followed by spraying of profenfos 50 EC 50EC @1ml/L, neemazal 1000ppm @1ml/L and malathion 5% @10kg/acre dusting at 50% pod maturity and maturity stages.

Outcome :

Nucleus seed production during 2020-21:

- Rice variety MTU-7029 (0.50 q), BPT-2504(1.8 0 q), Sarju-52 (0.80 q), NDR-2065 (0.80 q), Sambha Sub-1(0.90 q), NDR-97(0.40 q), NDR-2064(0.80 q) and NDR-359(0.50 q) total 6.5 q have been produced for multiplication to organizations and seed producing farmers.
- Wheat variety NW-5054(2.00 q), HD-2967(5.00 q) and NW-1014(2.00 q) total 9.00 q have been produced for multiplication to organizations and seed producing farmers.
- Barley variety NDB-1445(0.60 q)



total 0.60 q have been produced for multiplication to organizations and seed producing farmers.

- Rai Variety NDR-8501(0.05 q) and Pitambari(0.05 q) total 1.00 q have been produced for multiplication to organizations and seed producing farmers.
- Lentil variety NDL-1 (0.60 q) total 0.60 q have been produced for multiplication to organizations and seed producing farmers.
- Pigeon pea variety NDA-2(0.30 q) total 0.30 q have been produced for multiplication to organizations and seed producing farmers.

Breeder seed production during 2020-21:

- Rice variety BPT-2504(78.00 q), Sarju-52 (178.47q), NDR-2065 (122.50 q), Sambha Sub-1(167.20 q), NDR-97(4.80 q), and NDR-359(36.00q) total 586.97 q have been produced for multiplication to organizations and seed producing farmers.
- Pigeon pea variety NDA-2 (4.50 q) total 4.50 q have been produced for multiplication to organizations and seed producing farmers.
- Wheat variety HD-2967(147.60 q) and NW-1014(40.00q) total 187.60 q have been produced for multiplication to organizations and seed producing farmers.

Foundation seed production during 2020-21:

- Rice variety Sarju-52 (644.60 q), NDR-2065 (932.19 q), NDR 2064 (133.27 q), Sambha Sub-1(1678.52 q), NDR-97(13.60 q), MTU 7029 (50.40 q), HUR 1304 (24.00 q), HUR 1309 (18.00 q), Kala Namak-3 (12.00 q) and Rajendra Bhagaiti (10.00q) total 3516.58 q have been produced for multiplication to organizations and seed producing farmers.
- Mungbean variety NDM-1 (4.00 q) total 4.00 q have been produced for multiplication to organizations and seed producing farmers.
- Urdbean variety IPU-2-43 (3.50 q) total 3.50 q have been produced for multiplication to organizations and seed producing farmers.
- Pigeon pea variety NDA-2 (7.58 q) total 7.58 q have been produced for multiplication to organizations and seed producing farmers.
- Wheat variety NW-5054(45.00 q), HD-2967(1272.97 q), DBW 187 (106.40 q), HD -3086 (216.20 q), DBW-550 (92.00 q), WB-2 (127 q), CBW-38 (3.80 q), DBW-252 (5.50 q), PBW-154 (10.80 q), HD-3271 (100.20) and NW-1014(100.00 q) total 2079.87 q have been produced for multiplication to organizations and seed producing farmers.

- Lentil variety NDL-1 (100.85 q), KLS 122 (3.95 q) and KLS-09-3 (9.20 q) total 114.00 q have been produced for multiplication to organizations and seed producing farmers.
- Rai Variety NDR-8501(127.10 q), Maya (1.92 q) and Pitambari (11.10 q) total 140.12 q have been produced for multiplication to organizations and seed producing farmers.
- Gram/ Chick Pea variety RVG-202(57.78 q) and RVG-203 (20.40 q) total 78.18 q have been produced for multiplication to organizations and seed producing farmers.

Certified seed production during 2020-21:

- Rice variety MTU-7029 (262.96 q) and NDR-2065 (22.00 q) total 284.96 q have been produced for rice producing farmers.
- Pigeon pea variety NDA-2 (47.00 q) total 47.00 q have been produced for pigeon pea producing farmers.
- Wheat variety HD-2967(177.75 q) total 177.75 q have been produced for wheat producing farmers.
- The old seed lots of preceding year were seemed to be not-revalidated for pursuing crops season in wheat crop.
- Hydropriming and seed coating with drought alleviating bacteria+ biogrow followed by hydropriming and seed coating with Bio NPK treatment could be utilized for enhanced seed quality parameters i.e. first count, germination, vigour index-I, vigour index-II, speed of germination, final plant

establishment and yield in lentil and fieldpea crops.

- Foliar spray of Salicylic acid @400ppm could be exploited to increase number of primary and secondary branches per plant, total number of siliqua per plant, plot yield and harvest index in mustard crop.
- Emamectin benzoate (Proclaim 5 SG) @ 40mg /kg seed was found superior in term of germination (88.3%) with 0.7 % insect damage among all the treatment. Among botanicals, NeemAzal 10,000ppm @ 1.5ml/kg seed could be considered for standard seed germination (84.7%) with 1.98% insect damage followed by Acorus calamus TNAU Formulation @10ml/kg which was at par with Emamectin benzoate @ 40mg /kg seed. However, all the botanicals were found at par with Deltamethrin 2.8 EC @0.04 ml/kg seed.
- Spraying of Emamectin Benzoate 5 SG @0.3ml/L was found the best treatment followed by spraying of profenfos 50 EC 50EC @1ml/L, neemazal 1000ppm @1ml/L and malathion 5% @10kg/acre dusting at 50% pod maturity and maturity stages.

Impact:

Seed Production activities of especially newly developed and demand driven varieties of major crops have been taken up on massive way at University as well as farmer's field on participatory mode. All technical know-how were provided time to time for successful seed production. Further, Technologies developed under various disciplines viz., seed production, seed physiology, seed pathology and seed entomology of NSP-STR being disseminated through trainings, field demos.,



field days, kisan mela and also through radio talk and mobile to farmers. Hydro-priming in wheat, System of Rice Intensification, use of newer molecules during storage, foliar spray of Tilt/Propiconazole (0.1%) at booting stage for control of false smut in rice and for karnal bunt in wheat are some of the technologies which are being percolated to the farmer's field.

Research Projects :

Based on the vocational specific problems affecting productivity and farmers needs, the research programmes are formulated by the scientists concerned. At present **66 research projects/schemes**, financed by various

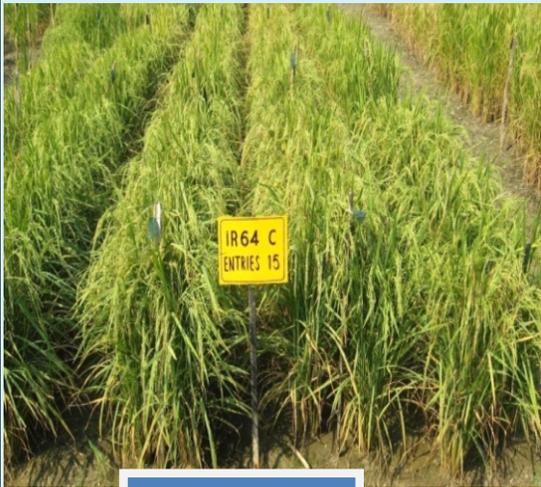
national and international agencies, are in operation in the university.

VARIETAL IMPROVEMENT :

The major research thrust in crop production has been to develop high yielding varieties of all important crops resistant to biotic and abiotic stresses. As a result, the university has so far **developed 181 improved varieties** of various crops out of which **157 varieties** have been released at central/state level by central/ state Varietal Release Committee (CVRC/ SVRC) and the rest have been identified for release.

CROP VARIETIES NOTIFIED :

1. IR 64-Sub 1:

Crop:	Paddy	
Rice	IR 64 -Sub1 (IET 21247) IR 64*3/ IR 49830 -7-1-2-3	
Notification No.	CG-DL-E-08102020 -222299 S.O. 3482 (E.)07 -10-2020	
Ecosystem	Flash flood mid early	
Characteristics		Crop
<ol style="list-style-type: none"> This variety has yield potential of 4.56 t/ha and its maturity duration is 110 -115 days. This variety has high submergence tolerance under flash flood and lowland conditions. IR 64 -Sub 1 has good milling (69.3 %), head rice recovery (61.6%), GC % (50.5) and L/B ratio (3.22 mm). It possesses intermediate grain amylose content (24.34%) alongwith good cooking quality. It possesses high degree of tolerance to BLB, sheath blight, leaf blast, brown spot, rice tungro, GLH, case worm, WBPH, plant hopper, gall midge (GMB 1) and stem borer in field condition. 		
		<div style="background-color: #0056b3; color: white; padding: 5px; display: inline-block;">IR 64 -Sub</div>

2. NDR 9930111 :

Crop:	Paddy	
Rice	NDR 9930111 (IET 19117) IR 70803 -2-NDR-3-4-15 Narendra Shishir CN 843-7-1/KDML 105// IR 498307-1-2-3	
Notification No.	CGDLE-03022024224901S.O. 500(E).201-2021	
Ecosystem	Flash flood late shallow low land	
Characteristics :	Crop : NDR 9930111 (Narendra Shishir)	
<ol style="list-style-type: none"> 1. A semi tall, submergence tolerance, long duration 145 days, high yielding variety (5.5t/ha), short bold grain (SB) type. 2. NDR 9930111 performed exceedingly well under different dose of nitrogen. NDR 9930111 indicated good responsiveness to nitrogen levels. 3. NDR 9930111 has good milling (68 %), head rice recovery (57%), GC % (50) and L/B ratio (2.23 mm). 4. It possesses intermediate grain amylose content (23.56%) alongwith good cooking quality. 5. It possesses tolerance to Leaf Blight, Sheath Blight, Sheath rot, BLB, RTV, BPH, WBPH, GLH, Gall Midge, Blue Beetle, Leaf folder, Case Worm and stem borer in field condition. 		

VARIETIES SUBMITTED FOR RELEASE :

1. NDR-702

Crop: Rice	Name of the culture: NDGR-702 (IET-25882) (NDGR207/IR49906-B-B-B-10-GHT-1)	
Ecology Deep water ecology of Uttar Pradesh (70-120 cm water depth)		
Characteristics <ul style="list-style-type: none"> • Long bold red kernel grain • Flowering duration 115 days • Moderate tillering • Good elongation • Kneeing ability with submergence tolerance 	Standing crop in deep water	



- Average grain yield 35-40 q/ha
- Quality-wise: 67.9% (HRR), amylose content (23.4%), hulling recovery (79.8%) and milling recovery (70.5%)
- Moderately resistance to Neck Blast and Stem Borer



2. NW-6046

Characteristics	Name of Crop - Wheat
<ol style="list-style-type: none"> 1. For Rain -fed 2. Average Yield : 21 -25 q/ha. 3. Duration : 125 -127 days 4. Plant Height : 95 -97 cm. 5. Resistance to Rust & leaf blight diseases. 	

3. NDR-702

Characteristics	Crop - Chickpea (NDG -14-11)
<ul style="list-style-type: none"> ➤ Desi bold seeded type(25.9g/100 seed) variety for timely sown condition. ➤ Duration: -135 -14 days. ➤ Yield -25-30q/ ha. ➤ Multiple resistant to dry root rot and Aschochyta blight. ➤ Moderately resistant against to pod borer. 	

4. Narendra Matar-1

Characteristics	Crop- Narendra Matar-1 (NDP2014-4)
<ol style="list-style-type: none"> 1. Creamy white large seeded 2. Medium tall (68cm) type. 3. Duration: -115 -118 days. 4. Yield -20-25q/ ha. 5. Resistant to powdery mildew and tolerant to rust. 	

5. Narendra Aonla-25

Characteristics	Crop : Aonla
<ol style="list-style-type: none"> 1. Early flowering (starts from last week of February) 2. Start bearing in 4th year 3. Early ripening (November) and earliest among the released varieties. 4. Fruit shape- Flattened round. 5. Average yield 34.73 kg/plant, fruit weight 52.76g , fruit size 4.18 cm x 4.41 cm, stone shape -round and size - small, total number of seed 06, segments-6, TSS pulp 11.50°Brix, acidity (0.89%) and vitamin C-545.93 mg / 100 g pulp. 	

6. Narendra Aonla-26

Characteristics	Crop : Aonla
<ol style="list-style-type: none"> 1. Early flowering (starts from last week of February) 2. Full ripening in the month of December. 3. Attractive bright green yellow colour of fruits with smooth thin skin of complete ripened fruits. 4. Fruit shape- Flattened round. 5. Average yield / plant is 55.56 kg, fruit weight 45.68g , fruit size 3.93 cm x 4.15 cm, total number of seed 06, segments-6, TSS pulp 10.850Brix, acidity (1.10%) and vitamin C 483.68 mg / 100 g pulp. 	

7. Narendra Bael-10

Characteristics	Crop : Bael (ND/AH-10)
<ol style="list-style-type: none"> 1. Early ripening (March) and earliest among the released varieties. 2. Compact foliage, less fruit sunscald and very less thorns under subtropical-arid environment and starts bearing in 4th year. 3. Drought tolerant, luxuriant growth and higher fruit yield under less precipitation and high temperature. 4. Attractive light yellow colour of pulp of complete ripened fruit. 5. It is highly suitable for powder and RTS owing to attractive pulp colour and fibre content. 	



VARIETIES IDENTIFIED FOR RELEASE :

1. NDR- 9730018

Crop:	Paddy
Rice	NDR 9730018 (IET 17294) IR 67469-1-2-M-1-1-1 (IR 53519-26-4-2-1-3/PSBRC 60) Narendra Pani Dhan
Release	SVRC
Ecosystem	Flash flood late shallow low land
Characteristics:	Crop : NDR-9730018
<ol style="list-style-type: none"> 1. A semi tall, submergence tolerance, long duration 145 days, high yielding variety (5.6 t/ha), long slender grain (LS) type. 2. NDR 9730018 performed exceedingly well under different dose of nitrogen. NDR 9730018 indicated good responsiveness to nitrogen levels. 3. The rice variety NDR 9730018 has exhibited fare degree of tolerant to major diseases and insect pests. <p>Disease- Leaf Blast,BLB,ShB,ShR and Rice tungro Insect/pest- BPH,WBPH, Whorl maggot, GLH,Gall midge and Stem borer</p> <ol style="list-style-type: none"> 4. The variety NDR 9730018 posses long slender grain type with good cooking qualities, milling% (80%) and head rice recovery (66%) with amylose content of about 24.03%. It cooks better as its gel consistency is soft (53.3 mm) with moderate alkali spreading value of 4.0 	

2. NDR 8418-3

Crop:	Paddy
Rice	NDR 8418-3 Kalanamak/Swarna
Release	SVRC
Ecosystem	Late aromatic short grain (Kalanamak Type)
Characteristics:	Crop : NDR 8418-3 Kalanamak/Swarna
<ol style="list-style-type: none"> 1. A semi tall, submergence tolerance, long duration 145 days, high yielding aromatic short grain variety (4.3 t/ha), short bold grain (SB) type. 2. NDR 8418-3 performed exceedingly well under different dose of nitrogen. NDR 8418-3 indicated good responsiveness to nitrogen levels. 3. The rice variety NDR 8418-3 has exhibited fare degree of tolerant to major diseases and insect pests. <p>Disease- BLB,ShB,ShR and Rice tungro Insect/pest- BPH,WBPH, Whorlmaggot, GLH, and Gall midge</p> <ol style="list-style-type: none"> 4. The variety NDR 8418-3 posses long slender grain type with good cooking qualities, milling% (80%) and head rice recovery (66%), good aroma 	
	

3. NDBG-16

Crop- Bottle gourd Characteristics	 <p>Fig- Narendra Kamna (NDBG-16)</p>
<ul style="list-style-type: none"> • Season-<i>Zaid</i> and <i>Kharif</i> • Recommended for Zone - Zone I (J&K and Uttarakhand) and VIII (Karnataka , TN and Kerala) • Features- Long fruit shape • Average Yield-270.83 • Potential Yield-542.2 q/ha 	

Germplasm Conservation

Crop	Number
Rice	1260
Maize	180
Wheat	370
Barley	281
Gram	440
Green gram	160
Black gram	150
Pea	210
Lentil	290
Forage Crops	282

Location Specific Production Technology :

1. Irrigation Water Management

Improved Water Management practice; 7cm water in each irrigation at 1-4 days after disappearance of ponded water through check basin (10x10m) has been found high yielding with rice yield of 51.11, 48.71 and 47.80 q/ha at head, middle and tail end of Awanpur distributory respectively which was about 23.10 - 24.64% higher in comparison to farmers practice (10-12cm water in each irrigation by flooding/field to field irrigation) and also saved about 33.68% irrigation water. The improved water management practice also observed the higher value of WEE in the range of 63.37 to 74.17 kg/ha.cm in comparison to farmers practice.





Improved Water Management practice; 6cm water per irrigation at critical stages (CRI, Late jointing and milking) of wheat in check basin (5x10m) resulted higher wheat yield of 42.42, 41.13 and 40.44 q/ha at head, middle and tail end of Awanpur distributory respectively which was 22.67-24.99% higher than that of wheat yield obtained under farmers practice (8-10cm water through field to field flooding method of irrigation). Similarly, the improved irrigation practice of water management observed the higher value of WEE in the range of 124.43 to 130.50 kg/ha.cm which was 67.94 - 71.10% higher than that of WEE worked out under farmers practice.



Diversification of crops during rabi crop season under poor availability of canal water has been found more productive and remunerative and **intercropping of gram with mustard (4:1)** has been found to be best as it gave the highest equivalent wheat yield of 49.62 q/ha followed by sole gram crop and intercropping of lentil with mustard (4:1) in which the equivalent wheat yield was 44.50 and 42.39 q/ha respectively. The intercropping of mustard with gram also accrued the maximum net profit of Rs. 73511.00 per hectare with highest benefit cost ratio of 4.34.



Rainwater harvesting and its multiple use through rice based diversified integrated farming system with and pisciculture accrued the net return of Rs. 161985.00 per hectare per year in comparison to conventional farmer's practice rice-wheat+rai which accrued the net return of Rs. 98052.00 per hectare per year. Thus, the integrated farming system with pisci-culture was found more productive with 3.63 benefit cost ratio than that of conventional rice-wheat + Rai cropping system in which the benefit cost ratio was 2.51 only.



The turmeric crop grown in the alleys of Aonla as alternate land use system under different drip irrigation fertigation systems observed that the fertilizer doses (100% and 75% of RDF) did not effect the yield of turmeric under drip irrigation treatments. **Drip irrigation @ 80% PE with 100% RDF** recorded the highest yield of turmeric 158.00 q/ha with WUE 20.68 kg/ha.mm.



<p>Effect of moisture regimes and weed management in drum seeded rice showed that the moisture regimes 6cm at 1 DADPW harvested significantly higher rice yield 45.47 q/ha with WEE 5.55 kg/ha.mm being at par with moisture regime 6cm at 4 DADPW which recorded the rice yield of 43.45 q/ha with WEE 5.72 kg/ha.mm. Weed management practice, two hand weeding resulted higher rice yield 48.03 q/ha with WEE 6.36 kg/ha.mm being at par with chemical weeding (Bispyribac sodium 10% SC @ 200ml ha⁻¹ post emergence) which gave the rice yield of 46.73 q/ha with WEE 6.18 kg/ha.mm.</p>	
<p>Effect of irrigation scheduling and in-situ residue management of combine harvested rice in rice-wheat cropping system revealed that the wheat crop sown with happy seeder resulted the significantly higher yield 44.70 q/ha with highest WUE 12.96 kg/ha.mm being at par with wheat crop sown after residue incorporation. The irrigation schedule I₃ (5 irrigations at CRI, tillering, LJ, milking and dough stage) recorded the significantly higher yield of wheat 45.08 q/ha with WUE 11.13 kg/ha.mm being at par with irrigation schedule I₂ (4 irrigations, at CRI, tillering, LJ and milking stage) in which yield was 42.62 q/ha.</p>	

2. Dry land Agriculture

- For maximum yield and profit in pigeon pea based cropping system, 75% RDF + FYM @ 5 t/ha + sulphur @ 40 kg/ha + Zinc sulphate @ 25 kg/ha + 1.5 kg boron/ha should apply in the pigeon pea crop under rain-fed condition.
- Application of FYM @ 6 t ha⁻¹ + ZnSO₄ @ 25 kg ha⁻¹ + FeSO₄ @ 10 kg ha⁻¹ along with 75% RDN is most suitable for rain-fed Maize.
- In Pigeon pea + black gram intercropping system, seed inoculation with PSB and Rhizobium culture and addition of FYM @ 3 t/ha and harit vardan biofertilizer along with RDF proved more economic and higher productive of pigeon pea and Black gram under rain-fed condition.
- Application of RDF (Pigeon pea & Black gram 20:40:0 & 80:40:40 kg/ha) N:P:K along with FYM @ 3 t/ha and seed treatment by Bio-fertilizers (*Rhizobium* + PSB) in pigeon pea based intercropping system viz. pigeon pea (NDA-1) + Maize (MM-1107) and Pigeon pea + Black gram (NDU-1) in 1:1 row ratio are more productive, make use of rainfall and length of growing season effectively and provide insurance against crop failure
- Application of 50 kg DAP/ha as basal+ 50 kg DAP/ha as foliar in 2 splits at 45 and 60 DAS + seed inoculation with PSB



was found most effective in increasing the yield of chickpea under rain-fed condition.

- Higher yield of paddy was obtained with the application of '100% RDF + 2 foliar spray of $10 \text{ kg ZnSO}_4 \text{ ha}^{-1} + 5 \text{ kg FeSO}_4 \text{ ha}^{-1} + 10 \text{ kg Borax ha}^{-1} + 10 \text{ kg Sulphur ha}^{-1}$ ' under rain-fed condition.
- Application of Pretilachlor @ 750 g/ha (PE 0-3 DAS) followed by Bispyribac sodium @ 25g/ha a.i. at 25 DAS proved more effective for controlling the weeds and enhancing the production in direct seeded rice under rain-fed condition.
- Pre-emergence application of Pendimethalin + 1 hand weeding at 30 DAS is more effective to control the weeds in pigeon-pea under rain-fed condition.



AICRPDA Experiments visited by progressive farmers of eastern UP - by Agriculture department of U. P. Government

Proposal Submitted For Recommendations:

BAEL

Out of 12 germplasm (ND/AH-8, ND/AH-9, ND/AH-10, ND/AH-11, ND/AH-12, ND/AH-16, ND/AH-17, ND/AH-21,

ND/AH-22, ND/AH-25, ND/AH-26, ND/AH-27) of bael were evaluated. On the basis of pooled over 5 years data, the maximum yield was recorded in genotype ND/AH-10 (212.85 q/ha) followed by ND/AH-17 (211.38 q/ha), ND/AH-16 (203.53 q/ha) and ND/AH-8 (148.57 q/ha) along with better quality parameters. Hence it may be concluded that all 4 genotypes recommended for commercial cultivation.

AONLA

On the basis of pooled over 5 years data of aonla germplasm, the maximum yield was recorded in genotype NA-26 (86.67 q/ha) followed by NA-25 (54.17 q/ha) and NA-27 (38.45 q/ha) along with better quality parameters. Hence it may be concluded that all 3 genotypes recommended for commercial cultivation.

EPIDEMIOLOGICAL STUDIES ON AONLARUST:

Based on last 16 years pooled (2004-2020) data on the epidemiological studies of aonla rust, it is concluded that the initiation of rust disease in aonla took place during 36th (3 September to 9 September) or 37th (10 September to 16 September) standard meteorological week and temperature (maximum and minimum) and relative humidity of evening hours showed negative and highly significant correlation with disease severity while positively correlated with relative humidity and sunshine hrs. Regression study indicated that 99% impact of weather parameters taken in to consideration for present study. The incremental disease in the incidence of the rust showed linear pattern from September to January of each year with its peak in the month of December. Meteorological parameters observed favorable for the disease initiation and further development were : Temperature (min.) 26.41°C, Temperature

(max.) 33.0°C, Relative Humidity (Mor.) 87.01%,
Relative Humidity (Eve.) 69.81%, Rainfall (mm)

30.50, Sun Shine hrs./day 5.94 found favorable
for the initiation of the disease.

ONGOING RESEARCH PROJECTS 2020-21

Sl. No.	Name of Projects	No. of Projects
1.	All India Co-ordinated Research Projects (75% ICAR share and 25% State share)	19
2.	Scheme 100% Financed by ICAR	02
3.	Research Project Financed by International Agency	01
4.	Research Projects Financed by UPCAR	03
5.	Research Projects Financed by RKVY	15
6.	Research Projects Financed by other National/State Agencies	08
7.	Non - Plan Projects 100% Financed by State Govt.	18
Total :		66

A. All India Co-Ordinated Research Projects (75% ICAR share and 25% State share)

Sl. No	Name of the Project/ Scheme	Mobile No.	Name of PI	Year of Start
1.	AICRP on Rice Improvement (D.K. Dwivedi)	9415720287	OIC, CRS Masodha	1976
2.	AICRP on Deep Water Rice (N. Prakash)	9415160709	OIC, CRS Ghaghraghat	1976
3.	AICRP on Maize Improvement (S.K. Singh)	9450164714	OIC, CRS Bahraich	1976
4.	AICRP on Wheat & Barley Improvement	9450882524	Dr. Vinod Singh	1987
5.	AICRP on MULLaRP	9451176756	Dr. M.P. Chauhan	2001
6.	AICRP on Chickpea	9452276217	Dr. Shiv Nath	2001
7.	AICRP on forage Crops Improvement	9415890200	Dr. R.S. Yadav	2001
8.	AICRP on Potential Crops	9451176756	Dr. M.P. Chauhan	1995
9.	National Seed Project (Crops)- 1- Seed Technology Research 2- Breeder Seed production	9451955851	Dr. S.C. Vimal	1978
10.	AICRP for Dry land Agriculture	9415720464	Dr H.C. Singh	1987
11.	AICRP on Irrigation Water management	9450763877	Er. .R.C Tiwari	1980
12.	AICRP on Integrated Farming System	9450766594	Dr. A.K. Singh	1976
13.	AICRP on Vegetable Improvement	9450737300	Dr.G.C. Yadav	1980



14.	AICRP on Potato Improvement	9453956534	Dr.R.K.Pathak	1987
15.	AICRP on Spices	9415475037	Dr. Pradeep Kumar	1995
16.	AICRP on Arid Fruits	9415439398	Dr. Bhanu Pratap	1987
17.	AICRP on Medicinal & Aromatic Plants	9936888454	Dr.D.P. Mishra	1980
18.	AICRP on Agro-forestry	9454932174	Dr. S.K.Verma	1987
19.	AICRP on Agro-meteorology	9415720436	HOD, Agromet.	1990

B. Scheme 100% Financed by ICAR

1.	National Initiative on climate resilient agriculture (NICRA) Dryland Agriculture	9415720464	Dr H.C. Singh	2010 to contd.
2.	NICRA (Agrometeorology)	9415720436	Dr. Sita Ram Mishra HOD, Agromet.	2010 to cont.

C. Research Projects Financed by International Agencies.

1.	Accelerated Genetic Gain in Rice (AGGRi-Alliance)-Marginal Environment (IRRI)	Dr. A.K. Singh	2019-20
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D. Research Projects Financed by UPCAR

Sl. No	Name of the Project/ Scheme	Mobile No.	Name of PI	Year of Start & Rs. In lacs
1.	Genetic enhancement for terminal heat tolerance in bread wheat (<i>Triticum aestivum</i> L.) with conventional and molecular breeding approaches.	9450766603	Dr. Shambhoo Prasad	2020-21 Rs. 16.77
2.	Development of suitable model to harvest the optimum potential of fish production in sodic soil of Uttar Pradesh	9450796577	Dr. Laxmi Prasad	2020-21 Rs. 19.18
3.	Genetic Improvement of Kala Namak for productivity traits, biotic and abiotic stress tolerance, aroma and nutritional quality.	8400097861	Dr. S.P. Giri	2020-21 Rs. 14.40

E. Research Projects Financed under RKVY

Sl. No	Name of the Project/ Scheme	Mobile No.	Name of PI	Year of Start & Rs. In lacs
1	Frozen Semen Bank for Indigenous Livestock (RKVY)		Dr. Sushant Srivastava	2018-19
2	Strengthening of Veterinary Clinical Complex		Dr.V.K. Singh	2018-19
3	Establishment of Molecular lab for identification of physio -molecular traits in the way of submergence & drought dual tolerance rice varieties for rain-fed low land areas of Eastern U.P. (RKVY)	9450766603	Dr. Sambhoo Prasad	
4	Establishment of Feed Analysis and Quality Control Laboratory		Dr. V.K. Singh, Nutrition Deptt.	2019-20
5	Strengthening of seed production farms (RKVY)	9415955851	Dr. S.C. Vimal	2020-21
6	Establishment of Agriculture Technology park	9450938866	Dr. R.R. Singh	2020-21 Rs. 472.00
7.	Production of elite germplasm through embryo transfer technique in bovine.		Dr Rabinder Kumar	2020-21
8	Collection identification and distribution of relatively high iron and zinc containing genotypes among farmers for fulfillment of nutritional requirement of rice eating poor consumers	9450766603	Dr. Shambhoo Prasad	2020-21 Rs. 23.00
9	Strengthening of parasitological laboratory with advance diagnostic facilities for detection of parasitic diseases		Dr. Amit Singh	2020-21 Rs. 92.77
10	Demonstration of drip irrigation/fertigation under diversifies cropping system.			2020-21 Rs.99.50
11	Establishment of centre for training, research and production of bio -fertilizer and bio -pesticide formulation for the benefit of farmers in Eastern U.P.		Dr. Alok Kumar	2020-21 Rs. 287.95
12	Renovation and establishment of New Polycarbonate Green House and Net House for Nursery production and cultivation of horticultural crops		Dr. Bhanu Pratap	2020-21 Rs. 72.25
	Mechanization of fodder farm based on agriculture implements and establishment of silage making machine for proper utilization of farm wastes.		Dr. Vishudhanand	2020-21 Rs. 94.00



13	Ergonomic laboratory for ergonomic risk analysis and reducing health hazard of farm women		Dr. Abha Singh	2020-21 Rs. 40.35
14	Strengthening of 07 KVKs of ANDUAT, Ayodhya.	9450938866	Dr. R.R. Singh	2020-21 Rs. 2099.74

F. Research Projects Financed by Other National/ State Agencies

1.	Gramin Krishi Mausam Seva (i) Head Quarter, Kumarganj Ministry of Earth Science (IAAS) (ii) Bahraich		Dr. A.N. Mishra 9450637552	1993
2.	Mission Integrated Development of Horticulture (MIDH)		Dr. R.S. Mishra 9450045737	2005
3.	Forecasting Agricultural output using space, agro - meteorology and land based observations (FASAL) Ministry of Earth Science (Govt. of India)		Dr. A.N. Mishra 9450637552	2010
4.	Creation of Seed hubs for increasing indigenous production of pulses in India (NFSM)		Dr. S.C. Vimal 9415955851	2016-17 to 2017-18
5.	Centre of Excellence in Rice (State Govt.)		Dr. A.K. Singh	2018-19
6.	Establishment of model seed testing lab. Under quality control Component of sub mission on seeds & planting material (SMSP) (Ministry of Agril. & Farmers Welfare ,GOI)		Dr R.D.S.Yadav	2018-19
7.	Germplasm characterization and trait discovery in wheat using genomics approaches and its integration for improving climate resilience, productivity and nutrition quality. Sub Project : Characterization and evaluation of wheat germplasm lines for biotic stress resistance. (DBT, Govt.)		Dr.S.P. Singh	2020-21 to 2024-25 Rs. 30.368 lacs
8.	Effect of Nano Fertilizers on Rice, Wheat and Potato		Dr. R.K. Pathak	2019-20

G. Non - Plan Projects 100% Financed by State Govt.

1.	Sodh Scheme (Rice , Masodha)		Dr. D.K. Dwivedi, Dr.S.P. Giri	
2.	Oil Seed Project		HOD, GPB	
3.	Pulses Project		Dr. R.M. Tripathi	
4.	Research on Vegetable Crops		Dr. V.B. Singh, Dr. C.N. Ram	
5.	Research on Crop Physiology		Dr. R.K. Yadav	
6.	NARP (Adjusted), Kumarganj, Faizabad		DAES	
7.	NARP (Adjusted), Masodha, Faizabad		OIC CRS Masodha	
8.	Foundation and breeder seed production unit and strengthening of seed testing lab.		JD(S&F)	
9.	NARP (Adjusted), (Tissuhi), Mirzapur		OIC ZARS Tissuhi	
10.	Sodh Scheme, Tissuhi (Mirzapur)		Dr. S.K. Singh	
11.	Flood Rice Research Scheme : Ghaghrahaht (Bahraich)		Dr. T. Kumar	
12.	NARP (H.Q.), Ghaghrahaht (Bahraich)		OIC CRS Ghaghrahaht	
13.	Jute Establishment Scheme : Bahraich		OIC, CRS, Bahraich	
14.	NARP Sub Station - Bahraich		OIC CRS Bahraich	
15.	NARP (Adjusted), Ghazipur		OIC ZARSS Ghazipur	
16.	Sodh scheme, Ghazipur		Dr. C.P. Singh	
17.	Production and processing of fruits in usar was teland		HOD Fruit Science	
18.	NARP adjusted Basuli		OIC, ZARS, Basuli	

New Research Projects Sanctioned

Sl. No	Name of the Project/ Scheme	Mobile No.	Name of PI	Year of Start & Rs. In lacs
1	Genetic enhancement for terminal heat tolerance in bread wheat (<i>Triticum aestivum</i> L.) with conventional and molecular breeding approaches (UPCAR)	9450766603	Dr. Shambhoo Prasad	2020-21 Rs. 16.77
2	Development of suitable model to harvest the optimum potential of fish production in sodic soil of Uttar pradesh(UPCAR)	9450796577	Dr. Laxmi Prasad	2020-21 Rs. 19.18
3	Genetic Improvement of Kala Namak for productivity traits, biotic and abiotic stress tolerance, aroma and nutritional quality. (UPCAR)		Dr. S.P. Giri	2020-21 Rs. 14.40
4	Strengthening of seed production farms (RKVY)	9415955851	Dr. S.C. Vimal	2020-21
5	Establishment of Agriculture Technology park (RKVY)	9450938866	Dr. R.R. Singh	2020-21 Rs. 472.00
6	Production of elite germplasm through embryo transfer technique in bovine.(RKVY)		Dr Rabinder Kumar	2020-21
7.	Collection identification and distribution of relatively high iron and zinc containing genotypes among farmers for fulfillment of nutritional requirement of rice eating poor consumers (RKVY)	9450766603	Dr. Shambhoo Prasad	2020-21 Rs. 23.00
8	Strengthening of parasitological laboratory with advance diagnostic facilities for detection of parasitic diseases (RKVY)			2020-21 Rs. 92.77
9	Demonstration of drip irrigation/fertigation under diversifies cropping system(RKVY)			2020-21 Rs.99.50
10	Establishment of centre for training, research and production of bio-fertilizer and bio-pesticide formulation for the benefit of farmers in Eastern U.P. (RKVY)			2020-21 Rs. 287.95
11	Renovation and establishment of New Polycarbonate Green House and Net House for Nursery production and cultivation of horticultural crops(RKVY)			2020-21 Rs. 72.25
12	Mechanization of fodder farm based on agriculture implements and establishment of silage making machine for proper utilization of farm wastes. (RKVY)			2020-21 Rs. 94.00
13	Ergonomic laboratory for ergonomic risk analysis and reducing health hazard of farm women			2020-21 Rs. 40.35
14	Strengthening of 07 KVKs (Mau, Amethi, Sultanpur-I Ghazipur, Nanpara, Bahraich & Ambedkarnagar) of ANDUAT, Ayodhya.	9450938866	Dr. R.R. Singh	2020-21 Rs. 2099.74



Award/Recognition :

Award Received by Scientists-

Scientist	Name of Award	Year	Awarding academy/society
Dr. R.D.S. Yadav	Fellow Award	2020	Indian Society of Pulses Research and Development, IIPR, Klyanpur, Kanpur.
Dr. S.C.Vimal	Fellow Award	2020	United Lighting Vision, Bengaluru, Karnataka
Dr. S.C.Vimal	Adarsh Vidya Saraswati Rashtriya Puraskar (National Award of Excellence)	2020	Glacier Journal Research Foundation Global Management Council.

Participation in workshop/ Webinar/ symposia/meetings:

- Dr. Nitendra Prakash virtually participated and presented about newly developed line NDGR-201 in state variety release committee meeting held on 23rd June, 2021 under the chairmanship of Additional Chief Secretary Agriculture and Agriculture education & Research, Uttar Pradesh..
- Dr. Nitendra Prakash actively participated in state variety release committee meeting held on 3rdfeb, 2021 at Uttar Pradesh Directorate of Agriculture, Lucknow.
- Dr. Nitendra Prakash attended and delivered lecture on aspects of doubling income of farmers on 21st march at jarwal block bahraich under the chairmanship of Hon'ble Minister of co-operative Sri Mukut Bihari Verma.
- Dr. Nitendra Prakash attended webinar on "World water day on value of water with reference to rice cultivation on 22nd march 2021 at IIRR, Rajendra Nagar, Hyderabad.
- Dr. Nitendra Prakash attended lecture on the occasion of 75th foundation day of NRRI, Cuttack, by Dr. Mritunjaya Mahapatra, DG IMD on 22nd April, 2021.
- Dr. Nitendra Prakash attended a National Webinar on Opportunities of commercial exploitation of exotic fruits organized by Bihar Agricultural University, Sabour, Bhagalpur held on 04th July, 2020.
- Dr. Nitendra Prakash attended a Two day National Webinar on Role of Immunity booster foods in wake of Covid-19 pandemic organized by department of animal husbandry and dairying TDPG college, Jaunpur held on 24-25th July, 2020.
- Dr. Nitendra Prakash attended a National Webinar on "Reimagining of teacher education with reference to national policy 2020" organized by SJNM PG College, Lucknow on 7th September, 2020.
- Dr. Nitendra Prakash participated in the virtual sensitization programme on "Knowledge Management in the networked digital Environment" jointly organized by ICAR-IVRI & ANDUAT, Kumarganj, Ayodhya on 29th October, 2020
- Dr. Nitendra Prakash participated in the national webinar on 'Nurturing the

- Nature for Health and Prosperity' held on 22nd May, 2021 on the occasion of 'International Biodiversity Day' organized by the College of Horticulture and Forestry, Rani Lakshmi Bai Central Agricultural University, Jhansi.
- Dr. Nitendra Prakash participated in National Webinar on “Drought Mitigation and Preparedness Under Climate Change” dated 26.03.2021 organized by Sri Karan Narendra Agriculture University, Jobner
 - Dr. Nitendra Prakash participated in the Webinar “Millets as Smart Food : Harnessing Opportunities to boost Immunity and Nutritional Security” organized by UPCAR on 14th June, 2021
 - Dr. Nitendra Prakash actively participated in pre workshop of 56th Rice Breeder Group Meeting on 15-04-2021 organized by IIRR, Rajendra Nagar, Hyderabad
 - Dr. Nitendra Prakash presented AICRIP report of Ghaghraghat centre on 16th April, 2021 during 56th Annual Rice Breeder Group Meeting virtually organized by IIRR, Rajendra Nagar, Hyderabad
 - Dr. Nitendra Prakash, Dr. R.A.Singh, Dr. S.K.S, Rajpoot and Sri A.L. Upadhaya actively participated in Virtual 56th Annual Rice Group Meeting on 19th and 20th April, 2021.
 - Dr. Nitendra Prakash, Dr.R.A.Singh and Sri A.L.Upadhaya participated and presented Rabi 2020-21 technical programme meeting held on 20th October 2020 at ANDUA & T, Kumarganj, Ayodhya.
 - Dr. Nitendra Prakash virtually attended Kharif 2021 technical programme meeting held from 17 May 2021 to 21 May 2021 under the chairmanship of our Hon'able Vice Chancellor. The meeting was organized by Directorate of Research, ANDUA & T, Ayodhya.
 - Dr. Nitendra Prakash, Dr. R.A.Singh, Dr. S.K.S. Rajpoot and Sri A.L.Upadhaya virtually presented the kharif 2021 technical programme of crop improvement, agronomy, entomology and plant pathology section under AICRIP (DW) on 18th May 2021.
 - Dr. Nitendra Prakash was virtually presented the performance of the centre regarding experiments conducted during Kharif 2020 on 18th November, 2020 under north eastern zone.
 - Dr. G.C.Yadav participated in International web conference on Biodiversity in Vegetable Crops for Healthier Life and Livelyhood organized by BAU, Sabour, Bhagalpur (Bihar) during 27th -28th August, 2020
 - Dr. G.C.Yadav participated in National webinar on disaster risk reduction strategies and management with focus on agriculture and sector organized by ANDUAT Kumarganj Ayodhya on 13th October, 2020
 - Dr. G.C.Yadav participated in International web conference on A webinar on prime minister formalization of micro food processing enterprises (PMFME) scheme organized by ANDUAT Kumarganj Ayodhya & Ministry of food processing industries, Government of India on 22nd October, 2020



- Dr. G.C.Yadav participated online in 38th Annual Group Meeting of AICRP on Vegetable Crops held from 25th to 27 Sept. 2020 at IIVR Varanasi.
- Dr. H.K. Singh Participated in webinar on “Prospects of Under-utilized Fruits in India for Nutritional Security and Entrepreneurship” to held on 24th May, 2021 under the aegis of World Bank-ICAR funded National Agricultural Higher Education Project (NAHEP)-IDP organized by Department of Horticulture, Sri Karan Narendra Agriculture University, Jobner (Raj.).
- Dr. H.K. Singh Participated in the technical sessions of the Regional Seminar on Importance of Water in Arid Region “Valuing Water” organized by ICAR-Central Institute for Arid Horticulture, Bikaner on World Water Day, 22nd March 2021.
- Dr. H.K. Singh Participated actively in the Webinar held on the occasion of 31st Foundation day of UPCAR on 14th June, 2020 on “Monsoon 2020 prediction and strategies for agriculture and allied sector of COVID-19” held at UPCAR, Lucknow.
- Dr. H.K. Singh Participated in national webinar on “Disaster Risk Reduction Strategies and Management with focus on Agriculture and allied sectors” Organized by A.N.D. University of Agriculture & Technology, Kumarganj, Ayodhya in collaboration with ICAR-NAHEP on 13th October 2020.
- Dr. H.K. Singh Participated international web-conference on “Climate Smart Agriculture for Sustainable Food and Nutrition Security” Organized by Beni Singh College Chenari, Rohtas (Bihar) and Society for Upliftment for Rural Economy, Varanasi (U.P.) during 10-11th July, 2020.
- Dr. H.K. Singh Participated in webinar on “Changing Scenario of Vegetable Production & Marketing in Pandemic Period” held on July 28, 2020 organized by College of Horticulture, Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut.
- Dr. H.K. Singh Attended a Webinar on “Hortipreneurship Development in Uttar Pradesh” by CADMS (Centre for Agribusiness and Disaster Management Studies), Shobhit Deemed to-be University, Noida held on July 4, 2021.
- Dr. H.K. Singh Participated in the Webinar on Prime Minister Formalization of Micro Food Processing Enterprises (PMFME) Scheme held on 22nd October, 2020, organized by College of Horticulture & Forestry, Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya, Uttar Pradesh.
- Dr. H.K. Singh Two weeks virtual national faculty development programme “Industry Institute Interaction- A Holistic Approach Insight out (Sunset Edition)” has actively participated in two weeks virtual national faculty development programme from 01 June to 14 June, 2021, BUARG-CE000320.
- Dr. H.K. Singh A National Level Webinar on “Familiarizing Digital Literature to Digital Natives” has participated organized by Department of English, Dr. MGR Educational and Research Institute, Adayalampattu Phase II Campus Chennai on 8th June 2021.

DIRECTORATE OF EXTENSION

Directorate of Extension has 25 Krishi Vigyan Kendras and four Krishi Gyan Kendras in different districts of eastern Uttar Pradesh. These centre operated different project like District Agro-meteorological Units (DAMU) , Crop Residue Management (CRM), Garib Kalyan Rojgaar Abhiyaan(GKRY), National Initiative On Climate Resilient Agriculture (NICRA), Cereal system Initiative For South Asia (CSISA), Tribal Sub-plan (TSP), Nutri-Sensitive Agricultural Resources & Innovations (NARI), Attracting & Retaining Youth In Agriculture (ARYA), Rashtriya Krishi Vikas Yojana (RKVY), Doubling Farmer's Income (DFI), Knowledge Systems & Homestead Agriculture Management In Tribal Areas(KSHMTA) etc. Major aim of our centre is to reduce cost of production with high quality production and increased farmer's income.

1. **Agriculture Technology Information Centre (ATIC)**

Agricultural Technology Information Centre is a single window delivery system of the University from where the farmers can purchase the required inputs and get latest technology related to different aspects of agriculture. Various Scientist/Subject Matter Specialist of different constituent colleges also provide solution of farmers' problem at ATIC.

2. **Technology Products Sold:**

ATIC provides various technology products to the farming community in form of Book, Mini kit, Folder sold quality seed of frontier varieties Agriculture Diary

S. No.	Technology Products Sold	No. /Quantity	Value (Rs.)
1.	Technical bulletin	1423	25811
2.	Poorvanchal Kheti	12000	220000
3.	Agriculture Diary	3000	360000
4.	Paddyseed (Qt)	312	624000
5.	Wheat (Qt)	295	744875
	Total		1974686

3. **Farm Advisory Services**

- Subject Matter Specialists of the Directorate as well as the faculty of various constituent Colleges provide advisory services to the masses. ATIC trained 2018 farmers of different districts of U.P., M.P and Bihar during their visit to the university campus. Apart from this thousands of farmers directly visited the different demonstration unit, training and visit farms of the university.

4. **Diagnostic Services**

- Directorate is providing diagnostic services through Colleges, ATIC and KVKs for soil, plant health (Plant clinic) and animal health (Veterinary clinic).
- Animal health camp is being organized regularly at village level to provide diagnostic and treatment facilities at door step of farmers.
- On spot solutions to the problems of farming community by making rigorous field visits and farmers scientist interaction.



5. Human resource management Training

- The Directorate of Extension is organizing refresher/training courses on the latest production technologies and management. These training programmes help the extension personnel by augmenting their knowledge and skill competencies to enable them to serve better their clients – the farmers. The Directorate of Extension use to conduct short and medium term training programmes throughout the year. The scientists / farm managers of the other farm science centers of Eastern UP were organized 2 days training on "**Office Management and PFMS**" from 16-17 March, 2021, "**Recent Advances In Soil Analysis & Nutrient management**" from 18-19 March, 2021, "**Natural Farming**" from 20-21 march, 2021 & "**Animal Based Integrated Farming System**" from 22-23 March, 2021, by the Directorate of Extension. In this training, one scientist/ farm manager from each KVK / farm science centers has participated. This training was funded by ICAR- ATARI Kanpur.

Human Resource Development Training conducted by directorate of extension

S. No.	Title	Clientele (KVKs)	Participants (No.)
1.	Office Management and PFMS	OS Comp. Progg.	25
2.	Recent Advances In Soil Analysis & Nutrientmanagement	SMSs	25
3.	Natural Farming	SMSs	25
4.	Animal Based Integrated Farming System	SMSs	25

6. Workshop/ Meeting organized

S. No.	Details of workshop/ meeting conducted	No. of Meetings	No. of participants
1.	Pre Zonal workshop revue meeting	01	23
2.	Mid Term Workshop	01	53
3.	Virtual Workshop of KVKs on technology Backstopping	01	32
4.	Letter Received/ Reply	26	26

7. Krishi Vigyan Kendras (KVKs)

KVK, is an integral part of the National Agricultural Research System (NARS), aims at assessment of location specific technology modules in agriculture and allied enterprises, through technology assessment, refinement and demonstrations. KVKs have been functioning as Knowledge and Resource Centre of agricultural technology supporting initiatives of public, private and voluntary sector for improving the agricultural economy of the district and are linking the NARS with extension system and farmers.

ACHIEVEMENTS

The major sphere activities of KVKs includes, conducting problem oriented on farm trials (OFTs), front line demonstrations (FLDs) on oilseeds, pulses, cereals, vegetables, fruit crops and other enterprises and also imparting trainings to farming community, rural youths, school dropouts, extension functionaries and other stakeholders with organizing various extension activities and generating elite planting material. Under jurisdiction of University 25 KVKs are working at various agro- ecological situations of the Eastern Uttar Pradesh.

A. On Farm Testing

Keeping in view the local need of farmers and prevailing problems and practices of the areas 126 numbers of OFT (on farm trials) were conducted on 666 farmers' field by all KVKs and provide the recommendations after assessment and refinement of the technologies in participatory mode.

Technology Assessed	No. of Technology Assessed & Refined	No. of Farmers
Crops	92	452
Livestock	13	72
Various enterprises	22	100
Other enterprises	11	60
Grand Total	138	684

B. Front Line Demonstration on Oil Seed, pulses and Other Crops/ Enterprises

Front line demonstrations on frontier technologies have been done on large scale on:

- Newly released varieties of different crops
- SRI, Drum Seeding and DSR methods of rice establishment
- Use of bio fertilizers and bio pesticides
- Resource Conservation Technology
- Precision agriculture
- Integrated fish farming
- Clean milk production

In order to provide wider adoption, validation, refinement and demonstrations were carried out on farmer's field in different crops/ enterprises as per the above thrust areas of the KVKs. Among oilseeds 752 ha, pulses 1684.70 ha, Cereals 1007.5 ha, Farm implements 110.20, Hybrid crops 28.00 ha and others 50.87 ha areas were included under demonstrations of different crops comprising 10425 demonstrations including same number of beneficiaries. During the reporting year 438 demonstrations were conducted in Livestock and other enterprises (Mushroom Production, Value addition, Kitchen Garden, Drudgery reduction, Farm Machinery) sectors.

Enterprise	Area (ha)	No. of Farmers	Units/ Animals
Oilseeds	875 ha.	2678	
Pulses	560 ha.	1590	
Cereals	528 ha.	1436	
Farm implements	35 ha.	108	
Other Crops (Vegetable, Fodder) Hybrid crops	28.0ha.	786	
Total	2026.00	6598	
Livestock & Fisheries		113	228
Other enterprises (Mushroom Production, Value addition, Kitchen Garden, Drudgery reduction, Farm Machinery)		35	94
Total		148	322
Grand Total	2026.00	6746	322



C. Trainings

Mainly, KVKs are actively involved in four types of training programme *viz.* training for practicing farmers (on campus or off campus), rural youth, extension functionaries and organizing sponsored trainings at farm and outside the campus. During the reporting year 2727 number of trainings were imparted out of which 1957 trainings to practicing farmers, 343 rural youth trainings, 183 extension functionaries, 157 Vocational and 87 sponsored trainings were conducted including 68235 beneficiaries.

Clientele	No. of Courses	Total participants
Farmers & farm women	2013	43279
Rural youths	266	5586
Extension functionaries	141	3645
Sponsored Training	36	2463
Vocational Training	123	2648
Total	2579	57621



D. EXTENSION ACTIVITIES

During the year 7700 number of extension activities were organized. The mass media includes 259 numbers of radio/TV talks

were broadcasted/telecasted in the reported year.

Activities	No. of programmes	No. of Participants
Advisory Services	2894	11996
Diagnostic visits	970	7059
Field Day	116	4981
Group discussions	146	5245
KisanGhoshi	644	63227
Film Show	51	4157
Self-help groups	35	1217
KisanMela	179	89297
Exhibition	138	58971
Scientists' visit to farmers field	1458	14842
Plant/animal health camps	35	2321
Farm Science Club	9	171
Ex-trainees Sammelan	51	1354
Farmers' seminar/workshop	658	1959
Method Demonstrations	62	2226
Celebration of important days	131	13284
Special day celebration	76	5564
Exposure visits	47	2885
Others		
Total	7700	290756

Particulars	Number
Electronic Media (CD./DVD)	77
Extension Literature	18683
News paper coverage	1213
Popular articles	245
Radio Talks/programmes	122
TV Talks/show	137
Animal health camps (Number of animals treated)	764
News Letter (Quarterly)	4
Training manual	65
Book chapter	18
Research paper	5
Technical reports	36
Technical bulletins	3
Seminar papers	26
Total	21285

8. Garib Kalyan Rojgaar Abhiyaan: -

- Total KVK under GKRA(Garib Kalyan Rojgaar Abhiyaan) - 14
- Each KVK organised 18 training courses and each training has 35 migrant labour.
- Total courses 243 with 8505 trainees has been trained under GKRA.
- Total employed trainees 3630 (2065 as self employed and 1565 employed with others.)
- Employment percentage - 42.68%.
- Training courses covered 17 subject such as:

Sr. No.	Topic	No. of Courses	Employed Trainees
1.	Mushroom Production	23	429
2.	Goat Production	26	394
3.	Poultry Production	21	286
4.	Dairy and Milk production	12	178
5.	Fish production	09	143
6.	IFS	23	288
7.	Fruits, vegetables processing and value addition	19	202
8.	Vegetable Production technique	19	271
9.	Nursery Prod. & Floriculture Technique	33	523
10.	Bee Keeping	23	286
11.	Vermicomposting	12	196
12.	Seed production Oil	04	73
13.	Seed production Pulses	05	70
14.	Seed Production cereals	07	168
15.	Organic Farming	04	48
16.	Sericulture	02	55
17.	Jaggery Production	01	20



9. Crop residue Management :

Under CRM district level awareness and 14 Kisan Mela & Kisan Goshti organized at chandauli, azamgarh, jaunpur, mahrajganj, bahraich, barabanki, siddharthnagar. Total 12,500 farmers benefitted by this.



Kisan mela, goshti and awareness programme conducted by 7 Krishi vigyan kendras Barabanki, Azamgarh, Mahrajganj, Chandauli, Jaunpur, siddharthnagar, Bahraich are as follows:

Sr. No.	District	Kisan Mela				Goshti/awareness programme			
		No. Of kisan mela	No. Of Male.	No. Of Female	Total	No. Of kisan mela	No. Of Male.	No. Of Female	Total
1.	Barabanki	1	350	150	500	15	1400	340	1740
2.	Azamgarh-I	2	425	198	623	04	300	103	403
3.	Mahrajganj	2	1005	195	1200	10	400	174	574
4.	Chandauli	3	1350	265	1615	14	650	261	911
5.	Jaunpur-I	2	1950	423	2373	05	790	110	900
6.	Siddharthnagar	2	1730	320	2050	10	1550	270	1820
7.	Bahraich-I	1	450	100	550	16	750	275	1025
	Total	13	7260	1651	8911	64	5840	1533	7373

10. Production of Seed and Saplings



Now days, Krishi Vigyan Kendras are becoming a centre for supplying elite/quality planting material and seeds of different crops to the farmers. During the year 4568.34 quintals crop seed were produced at farm level and more than 6.86 lacs seedlings of fruits and vegetables were supplied to the farmers.

Seed & Planting Material Production

	Quintal/ Number	Value (Rs)
Seed (q)	4568.34	13047903
Planting material (No.)	686269	805556
Bio-Products (kg)	21.350	10675
Livestock Production (No.)	1530	138000

11. Foundation stone laying of KVK/Farm Science Centre at Barasin, Sultanpur II

KVK Barasin, Sultanpur II was the twenty second KVK of Acharya Narendra Dev Agricultural and Technological University, Kumarganj Ayodhya, the foundation stone and Bhoomi Poojan programme was conducted on 03rd October, 2020, by Sri Surya

Pratap Sahi Ji, Hon'ble Cabinet Minister of Agriculture, Agricultural Education and Agriculture Research, Government of Uttar Pradesh in gracious presence of Smt. Maneka Sanjay Gandhi Ji, Honorable Member of Parliament of district Sultanpur.



12. Agricultural University got 25th Farm Science Center at Agamgarh

The Government of Uttar Pradesh, was agreed in the cabinet meeting to provide 8.46 hectares of land to establish another KVK at Gram Sabha Ladaura in the district Azamgarh, which is newly established.

13. MoU Signed with Madan Mohan Malaviya University of Technology, Gorakhpur

Acharya Narendra Dev University of Agricultural and Technology, Kumarganj, Ayodhya and Madan Mohan Malviya University of Technology, Gorakhpur have signed a two-party agreement to work together in the eastern Uttar Pradesh in the field of expansion and spread of smart farming technology. Under this agreement, this University and University of Technology

Gorakhpur will promote technical use of drones and sensor equipped devices on agricultural fields.

14. Combating Covid 19

During the pandemic period of Covid 19 the extension activities like awareness, sensitization, hand sanitization, cleanliness drive and re-addressal of farmers' problems were taken up by directorate and KVKs. KVKs have helped the farming community to install, use and promote the Arogya Setu, Kisan Rath and Ayush Kavach App launched by Government of India and Uttar Pradesh. During the period our scientists' of KVKs' have helped to download 100559 Arogya Setu App, 32559 Kisan Rath App and 5340 Ayush Kavach App used to stay protected from Covid 19. Apart from this employment generation training under *Garib Kalian Rozgar Abhiyan* programme was also initiated with the financial support of Govt. of India from July to October, 2020. During this period 2043 courses were organized and trained 8505 migrant laborers by 14 KVKs of Eastern UP.

15. World Soil Day celebrated

On the occasion of World Soil Day, a seminar on Soil Biodiversity Management for Agriculture was organized on 5 December 2020 at university level and all the KVKs of this university on the occasion farmers and farm women have been sensitized to apply judicious use of agrochemicals in order to improve soil health. Soil health card was also distributed to the beneficiary farmers.

16. Best KVK Award

Pt. Deen Dayal Upadhyay Zonal Krishi Vigyaan Protsaahan Puraskaar received by KVK Basti under Directorate of Extension, ANDUAT, Ayodhya on the occasion of ICAR Foundation Day 16/07/2020.



17. Farmers fair and agricultural exhibition



A three-day farmers' fair and agricultural exhibition was organized in the university campus during 20 - 23 December 2020, in collaboration with the State Agriculture Department, Government of Uttar Pradesh. The main theme of this Kisan Mela was to sensitize the farming community of this region about misconception leading towards

farmers' agitation on the three Agricultural Bills recently passed by Government of India. This kisan mela was inaugurated by the Yogi Aditya Nath ji Honrable Chief Minister of Uttar Pradesh in gracious presence of Sri Surya Pratap Sahi Ji, Hon'ble Cabinet Minister of Agriculture, Agricultural Education and Agriculture Research, Government of Uttar Pradesh. More than ten thousand farmers' and farm women from different districts of eastern UP have participated in the Kisan Mela. During the Mela frontier technologies from various fields of agriculture were also presented. Technical session and Gosthi was also conducted on all the three days where several queries and problems of farmers were addressed by scientific community.

STUDENT'S WELFARE ACTIVITIES

Prof. D. Niyogi

Dean Student's Welfare

The Dean Student's Welfare Office provide boarding, lodging, facilities for entertainment and sports, medical facilities and security to the all registered students. This office facilitates the students in getting fee concession, fee reimbursement, scholarship/fellowship; stipend etc. and also plays the pivotal role to maintain discipline among the students.

HOSTELS:

The students of each College are compulsory to reside in the Hostel. There are 21 hostels including three separate hostels for girls' students and one for International

students with separate arrangements for post-graduate and undergraduate students in which near about 1900 students are residing.

Financial aid/scholarships in the University:

The financial assistance is available for more than 60% students. There are about 20 types of scholarships such as University financed scholarships, I.C.A.R., U.G.C., Samaj Kalyan Scholarship for Scheduled caste,/ Scheduled tribes, General categories and Minority, Other backward class scholarships from Govt. of U.P. and Individual Fellowships, Mandi Parishad scholarships, National Talent Scholarship etc for the students.

Details of Scholarships in the University:

Sl. No.	Details of Scholarships	No. of Students	Amounts	Remarks
1-	University Merit Scholarship			
a)	B. Sc. (Ag./ Home Sci./ B.V.Sc. & A.H.)	15 per cent total admitted students in a year	Rs. 150/= PM	-
b)	M. Sc. (Ag.)/ Home Sci./ M.V.Sc.)	01 Student in each Deptt.	Rs. 500/=PM	-
c)	Ph. D.	02 Students in each Deptt.	Rs. 1500/=PM	-
2-	U.G.C. Fellowship		Rs. 25000= PM and after 02 year Rs. 28000/= PM	Selected by U.G.C. on the basis of students application showing his Ph. D. research work.
a)	Rajeev Gandhi National Fellowship for SC/ST Ph. D. students	0 Students		
b)	DST - Inspire Fellowship	02 Students old		
3-	ICAR Fellowship		Rs. 12000/=PM	Selected by ICAR through entrance examination.
a)	Junior Research Fellowship M. Sc. (Ag./Home Science)	-		



b)	Senior Research Fellowship Ph.D.	-		
4-		NTS Awardee (UG & PG) students by ICAR	UG - Rs. 3000/=PM PG- Rs. 5000/-PM	Selected by ICAR through entrance examination
5.	U.P. Mandi Parishad Scholarship for all colleges			
a)	Under Graduate	20 Students	Rs. 3000/=PM	These scholarships have been given to son/ daughter of Laghu Seemant Farmers and selected on the basis of intermediate/B. Sc. Level merit.
b)	Post Graduate	35 Students	Rs. 3000/=PM	
6-	U.P. Govt. Scholarships			These scholarship have been given to students those guardians income is below Rs. 2.5 lac per year SC/ST and General/ OBC 2.0 Lac. Rate of scholarship of Hostelor students is Rs. 1200/= PM and Day Scholars is Rs. 550/=PM
a)	SC/ST Category Scholarship	-	Rs. 1200/=PM	
b)	General Category Scholarship	-	-do-	
c)	OBC Category Scholarship	-	-do-	
d)	Minority Category Scholarship	-	-do-	
e)	Out of country Fellowship	-	Rs. 15000/- PM	
				Rs. 6000/-contingencies Per year

The financial assistance has been made available to more than 75% students of the university. During the academic year 2020-21 the students of different categories has got scholarships and fee reimbursement from the Social Welfare, Other Backward Class and Minority departments of U.P. Government. Other scholarships / stipends has been provided by Mandi Parishad, U.P., NTS-ICAR etc.

1. **Scholarship from Department of Social Welfare, UP Govt. (2020-21)**

- (i) Scheduled caste / tribes category - 305 students
- (ii) General category - 350 students

(iii) Other Backward castes category - 671 students

(iv) Minority category - 54 students

No. of total students - 1380 students

2. **Mandi Parishad Scholarship (2020-21)**

- (I) UG Students - 22
- (ii) PG Students - 14

3. **National Talent Scholarship UG & PG (2020-21)**

- (I) UG Students - 22
- (ii) PG Students - 25

4. **DST Inspire Fellowship (2020-21) - 02 students (PG)**

5. **Indo-Afghan Scholarship (2020-21) - 06 students (PG)**
6. **University merit scholarship - 02 students (Ph.D.)**
7. **International Fellowship for minority students - 01 student (PG)**

ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS:

Forty students comprising of 33 boys and 07 girls from different colleges of our university participated in the **All India Agri-Sports-2020** organized by Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh from **1st March to 5th March, 2020**. Our students participated in different sports events like Badminton, Kho-kho, Table Tennis, Volley ball, Shot put, Discus Throw, Javelin throw etc. Dr. Ruma Devi, Assistant Professor from College of Veterinary Science & Animal Husbandry and Dr. Dev Narayan, Sports Teacher were deputed as Team Managers to lead the students from different colleges of the university in Agri-Sports-2020 and to maintain the discipline among the students on the way of journey and during their stay at Tirupati Andhra Pradesh.

MOU signed:

The MOU signed between NDUAT and **Medha** Learning Foundation, Lucknow to establish the Career Service Centre to train the students about the Career Advancement Bootcamp, Life Skills Advancement Bootcamp and Technology Bootcamp. Medha is providing 21st century skills training, career counseling and workplace exposure, and ongoing job placement support to our university students. The Directorate of Placement has also signed a MOU with Gram Unnati Foundation (**GUF**), Noida for exchange of knowledge and better RAWE programme of the students. "**YouthScape**" a **career orientation workshop** was organized in

March, 2020 for the final year students of all the colleges for personality development and better career options.

Hostel renovation:

Renovation of Rapti, Kalindi, Varuna, Gomti, Niranjana, Saryu, Saraswati, Anoma and other hostels has been done.

Foreign Students:

Four Afghanistan students are studying in the University for the M.Sc. and Ph.D. degree in the subject Agriculture Extension Education and Horticulture during the academic session 2020-21.

PHYSICAL EDUCATION:

The university organized many different activities through games and sports as well as cultural, debate and social programme units like Athletics, Badminton, Basketball, Cricket, Football, Gymnastics, Hockey, Indoor games, Kabaddi, Tennis, Kho-kho, Handball, Swimming, Table Tennis, Volley ball, Yogic exercises, cultural, art & craft, literary and communication skill events under over all supervision of University Sports Council / Dean Student's Welfare. The University provides required games and sports materials to the hostels as well as University ground. A central sports ground, adequately equipped gymnasium, physical fitness equipments and a swimming pool (under construction) exists for athletics as well as other game events. The sports items in sufficient amount have been purchased for the students in the year 2020-21.

Sports coaching facilities:

The Guest teacher has been appointed for coaching to the students. Coaching facilities are available in the University sports ground for making the students efficient in various games. The students can contact the physical education Staff / Presidents of various games for guidance.



Activities of games & sports:

The Department of Games and Sports organized the Inter College Kabaddi, Volleyball, Football, Table Tennis and Badminton Championship Tournaments.

Group health insurance scheme:

This scheme is compulsory for each student in which cashless treatment facilities are available.

Student's discipline & hostel regulations:

A student is expected to reflect under all the circumstances proper respect for order, morality and rights of others and such sense of personal honor as demanded by good citizens. The University reserves the right to drop any student whose conduct is deemed improper or prejudicial in good order and in interest of the University. The serious cases of indiscipline are referred to the University Discipline Committee for the punishment. Each and every students of the university shall follow the rules and regulations of the university during their study period. Under the direction of Hon'ble Vice-Chancellor, printed copies of new hostel rules and regulations has been distributed to all the Hostel Warden and Assistant Hostel Warden of different hostels and also to the students of our university prior to start of semester.

Accomplishments and Initiatives:

- The financial assistance has been made available to more than **75%** students of the university. Total **1474 students** of UG & PG have received the **scholarship** during the academic year **2020-21**. That is the **record number of students got scholarship** in the **history of the university**. The students of different categories have got scholarships and fee reimbursement from the **Social Welfare**, Other Backward Class and Minority

departments of U.P. Government. Other scholarships / stipends have been provided by **Mandi Parishad**, U.P., **NTS- ICAR**, Indo-Afghan fellowship, **DST-Inspire** Fellowship etc.

- All the Processes for providing **RAWE scholarship/ stipends** from ICAR to the university students of different accredited colleges have been completed. It is expected that the funds will be released by the ICAR within a short period.
- **Forty three (43)** students of the university has been selected in the post of Sales Executive / Sales Trainee and Assistant Professors by different reputed Private Companies/ Agencies/ private Educational Institutions with the initiatives of the Directorate of **Placement Cell** of the University by organizing both online and offline campus interview.
- **Sixty four (64)** students from this university qualified in the JRF and SRF examination conducted by ICAR for the session 2020-21 and thirty one (31) has taken admission in Master's and Ph.D. programme in different ICAR Institutes and State Agriculture Universities of the country.
- After a long gap, **03 units** (each of 100 strength) of National Service Scheme (NSS) have been allotted to the university by the Regional Directorate of National Service Scheme, **Ministry of Youth Affairs and Sports**, Government of India (GOI).
- **24 students and 18 faculty** members has been given training for "Agripreneurship Development" from the National Institute for

Entrepreneurship and Small Business Development (NIESBUD), Ministry of Skill Development and Entrepreneurship, Government of India to promote entrepreneurship and skill development among students of the university.

- “**YouthScape**” a **career orientation workshop** was organized in collaboration with Medha Learning Foundation, Lucknow and NAHEP in March, 2020 for the final year students of all the colleges for interactive discussion with panelists for personality development and better career options and also to encourage the students for entrepreneurship and self-dependent with the farming aims.
- Career Advancement Boot Camp (30 hour Training) by Medha Learning Foundation organized for 38 students as a Personality Development Initiative under NAHEP-IG Project.
- Forty students comprising of 27 boys and 13 girls from different colleges of our university participated in the All India **Agri-Sports-2020** organized by Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh from 1st March to 04th March, 2020.
- Five Webinars were organized on the “**Career opportunities**” for the students and Four (04) “Student Corporate Interaction” programme were organized during the year 2020-2021 with the support of NAHEP IG project of the university.
- 04 students (2 Male & 02 Female) participated in the National Camp Name '**Swaraj to Aatma-Nirbhar Bharat Tak**' organized by Association of Indian universities (AIU) to celebrate 75 years of India's Independence and 150th birth anniversary of Sri Aurobindo, with a mission to involve the young generation in the transformation of the nation.
- Group health insurance scheme has been made compulsory for each student in which cashless treatment facilities are available.
- The facilities for a new cricket ground, Hockey ground and Hand Ball has also been created in the University sports complex near the stadium.
- Keeping in view the increasing strength of girls students, one boys hostel (Rapti) has been transformed and modified into girls hostel for better comfortability of the students.
- Kitchen, dining places, toilets, bath rooms and gallery of all the hostels has been repaired and renovated.
- Single beds in sufficient number have been provided in the girl's hostel. All the indoor and outdoor sports facilities have been established in the girl's hostel.
- In all hostels, ordinary bulb has been replaced by LED bulbs and proper lighting facilities in the hostel and hostel premises have been assured. All the street lights of different hostels has been fitted with LED lights and maintained in working condition.
- Surroundings of all the hostels have been cleaned to maintain a hygienic atmosphere in the hostel.
- Keeping in view the Covid- 19 pandemic, Automatic Sanitizer machine, Thermal Scanner and oximeter has been provided in the all the hostel where student were residing for offline teaching and research



purposes after re-opening of the hostels to follow the Covid- 19 Advisory.

- All the hostels in the main campus of the University at Kumarganj including girls's hostels were sanitized three times during the month of January, February and March, 2021.
- All the Colleges, Directorates, Registrar office, Comptroller office and as a whole Administrative Building were sanitized weekly from June, 2020.
- Covid-19 testing was conducted for the staff and their family members in the campus regularly from June, 2020 and proper care was taken for quarantine and medication for the Covid-19 positive persons.
- After Reopening of the hostel in the month of October, 2020, Covid-19 testing was conducted for all the students at the campus for the entry into the hostel so that only covid negative students could be allowed to stay in the hostel. Again, during their stay in the hostel from October, 2020 to March, 2021, Covid testing was done for the students staying in all the hostels time to time. **A total of 22 covid-19 testing camps were organized.**
- Covid Help Desk is in operation at the entry point of the all colleges, Directorates an Administrative Building.
- All the teaching and Non-teaching staff in the university has got vaccinated against covid-19 except very few persons who were severely affected with the covid-19 (890 out of 909). Most of the students of the university have also been immunized by vaccination

against covid-19 through monitoring team of the university.

HOSTELS AND STUDENTS CAPACITY:

Sr. No.	Hostel	Rooms	Seats
1.	Ganga Hostel	108	130
2.	Yamuna Hostel	104	140
3.	Saryu Hostel	112	156
4.	Kalindi Hostel	70	120
5.	Varuna Hostel	110	130
6.	Rohini Hostel	40	120
7.	Hiranyawati Hostel	58	116
8.	Anoma Hostel	34	102
9.	Amrawati Hostel	50	100
10.	Saraswati Hostel	50	120
11.	Rapti Hostel	34	68
12.	Gomti Girls Hostel	52	126
13.	Brahamputra Hostel	40	120
14.	Niranjana Hostel	19	38
15.	Gomti Girls Hostel Phase-2	20	60
16.	Achirawati Hostel	22	44
17.	Godawari Hostel, Ambedkarnagar	60	90
18.	Kaveri Hostel, Ambedkarnagar	43	72
19.	Girls Hostel, Ambedkarnagar	18	36
20.	Boys Hostel Azamgarh	32	96
21.	Girls Hostel, Azamgarh	20	60



FINANCE**REVENUE GENERATED DURING 2020-2021**

S. No.	College/ Department		Revenue (in Lakh)
1.	College of veterinary Science	Sale of milk, eggs , chickens and auction	25.45
2.	Directorate of works and plants	House rent , electricity, water etc.	75.13
3.	Vehicle section	Vehicle rent and auction	0.08
4.	Central store	Sale of tenders	0.20
5.	Hospital	Treatment slip	0.10
6.	Library	Late payment of books and sale of old news papers	0.16
7.	Instructional farm	Farm produce	0.19
8.	Forestry	Sale of trees	16.51
9.	College fees	Student fees	1416.05
10.	Estate section	Auction of trees	8.65
	Total		1542.52

GRANTS RECEIVED FROM GOVERNMENT DURING 2020-21

S. No.	Particulars	Amount in lakh
1	Grant to University a. Salary b. Non Salary	4940.10 50.00
2.	Grant ot college of veterinary science a. Salary b. Non Salary	983.42 30.00
3	Grant to engineering college a. Salary b. Non Salary	79.15 25.00
4	Grant to agriculture campus Azamgarh a. Salary b. Non Salary	154.50 150.00
5	Grant to KVKs	2.00
6.	Grant for employer contribution of NPS a. Agriculture college b.College of Veterinary Science	149.56 55.00
7.	Grant for employer contribution of NPS	275.00
8.	Grant for construction	662.23
9.	Grant for centre for excellence on rice (non salary)	25.00
10.	Grant for payment of electricity bills	210.12
	Total	7791.08



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