

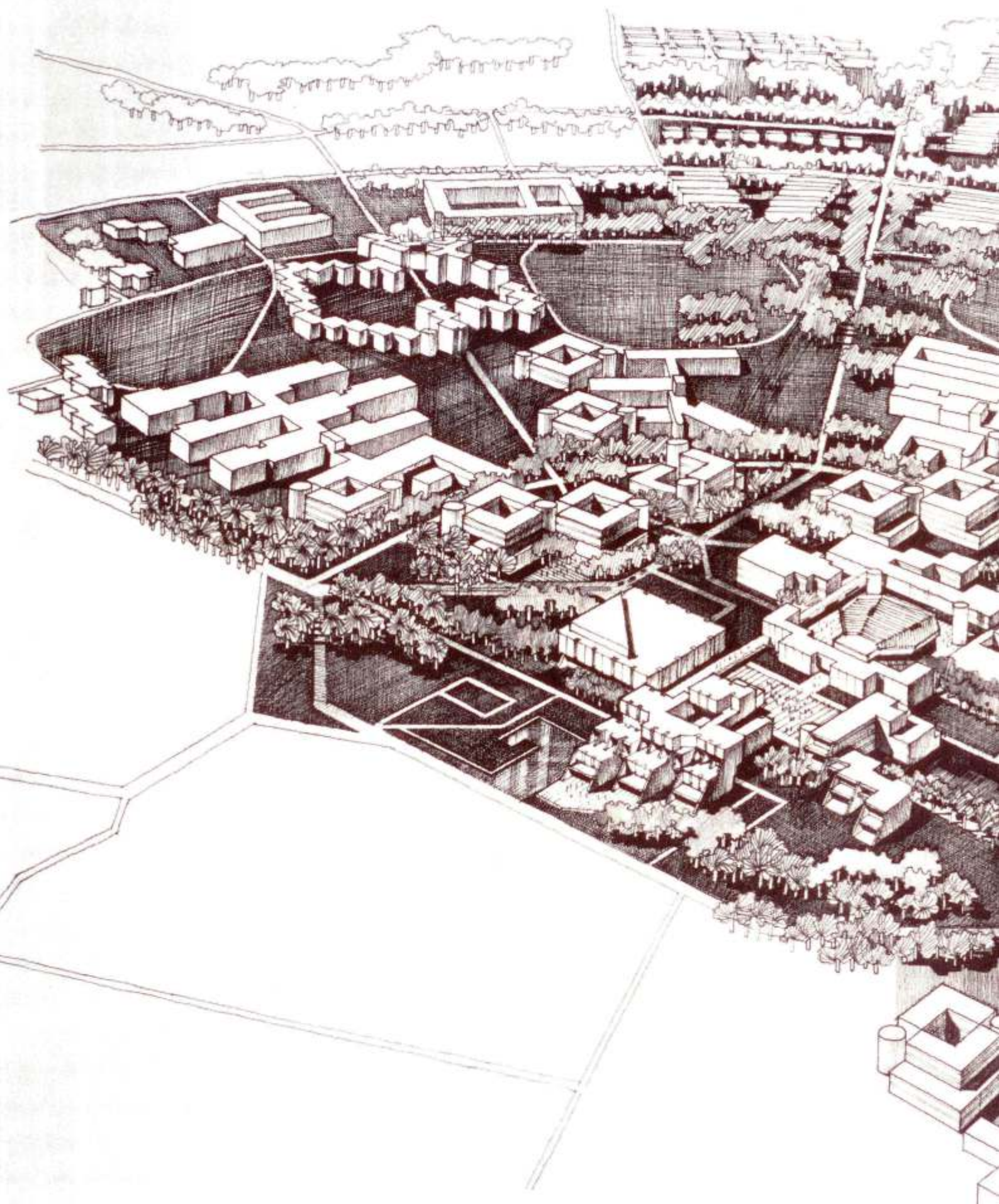
College of Agriculture

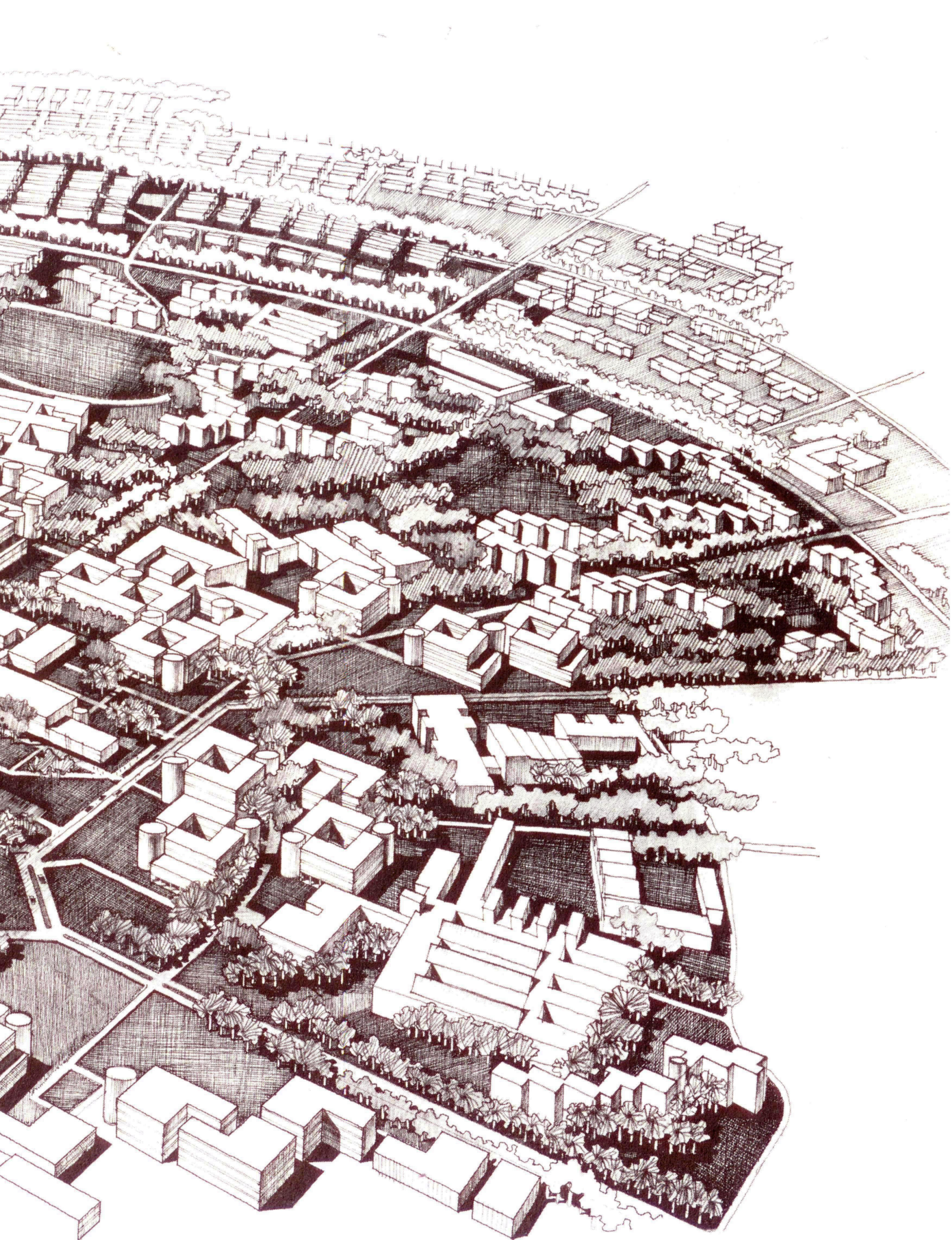
Annual Progress Report 2023

The efforts, outputs and outcomes



**G. B. Pant University of Agriculture & Technology,
Pantnagar, Uttarakhand 263145, India**





College of Agriculture

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The Indomitable Agriculture College: Salient Progress in 2023



The College is growing structurally with quality education and relevant researches. The quality of publication has enhanced significantly in last few years and now, each student in the college wants to publish in high quality journals. The thrust of excellence is a key word with which the college is consistently growing with tangible outcomes.

The Glimpses of Year 2023

- In the academic year 2023-24, the College of Agriculture admitted a total of 203 students in B.Sc. Agriculture. Additionally, there were 21 students enrolled in B.Tech. Food Technology, 135 in Masters and 61 in Ph.D.
- In the same academic year, 170 students completed their B.Sc. Agriculture, 28 completed B.Tech. Food Technology, 119 students finished M.Sc. Agriculture and 56 completed Ph.D. from the College.
- Miss Shambhavi, Id No 58678 won the prestigious National Elocution Contest of NAAS in 16th National Agricultural Science Congress at CMFRI, Kochi as a National Winner. She is a 2nd year student of B.Sc. (Hons.) Agriculture.
- Notably, the college students excelled in the JRF 2023, with Mr.

- Surya Pratap Singh Id no. 54424 securing all-India rank 1 in JRF Social Science, Ms. Shristi Sanwal Id no. 54354 secured rank 4 in JRF Social Science and Ms. Akansha Upadhyay Id. No. 54635 achieved rank 7 in JRF Horticulture among other notable achievements.
- Likewise, Ms. Garima Kanyal Id no. 54384 achieved all India rank 16 in JRF Horticulture, Ms. Shivani Kanyal Id no. 54378 achieved all India rank 15 in JRF Plant Biotechnology, Ms. Geetanjali Joshi Id no. 54675 achieved all India rank 23 in JRF Food Science and Technology, Mr. Varun Raghuvanshi Id no. 54467 achieved all India rank 23 in JRF Agronomy, Ms. Pooja Belwal Id no. 54464 achieved all India rank 25 in JRF Plant Science and many other students achieved notable rank in ICAR JRF this year.
 - The college students equally excelled in management examinations and secured admissions in leading agri-business and general management institutions of the country. Ms. Palak Chaturvedi Id. No. 54512 got admission in FMS Delhi, Mr. Nitin Id. No. 54491 and Ms. Chitra Joshi Id. No. 54361 secured admission in IIM Ahmedabad, Mr. Abhijeet Sahoo Id. No. 54477 is pursuing masters from IIM Lucknow, Mr. Rishabh Id. No. 54480 is studying at IIM Amritsar and many others are undertaking their masters degree from IRMA, Anand; TISS, Mumbai, IMT Ghaziabad and Symbiosis Institute of Management, Pune.
 - Furthermore, two students, Smrutirekha Pati Id no. 54454 and Akash Sharma Id no. 54362 who completed their bachelor's in agriculture successfully enrolled in masters' programs abroad. Smruti Rekha Pati is pursuing Sustainable Crop Production at the University of Warwick in the UK while Akash Sharma is enrolled in Applied Science in Environmental Science and Management at Toronto Metropolitan University in Ottawa, Canada.
 - Total 17 new improved varieties of different crops have been released by the scientists of the college during year 2023.
 - Total 70 faculty members were conferred with faculty excellence award for the year 2023 for their research achievements and salient academic contributions.
 - Total 55 students of M.Sc & Ph.D. were selected for student excellence award for the year 2023 for their publication in journals with NAAS rating above 6.00.
 - More than 50 research projects from various national & International funding agencies are being run by the scientists of college during the year 2023.
 - Total 48 students of the college got an opportunity to visit the leading universities of the world including IRRI, Philippines; Griffith University, Australia; Western Sydney University, Australia; Curtin University, Australia and Can Tho University, Vietnam under the Student Exchange Programme of World Bank funded NAHEP project at Pantnagar.
 - Total 5 students of the college successfully completed 1-month training in food processing in professional and vocational institution of Aurillac-Lyce G. Pompidou, France under the DEFIAA programme in collaboration with French Ministry for Agriculture and Food Sovereignty.
 - Total 8 faculty members of the college visited the leading universities of the world namely Clemson University, USA; Western Sydney University, Australia; University of Queensland, Australia; Texas A&M University, USA; Washington State University, USA; University of Melbourne, Australia; Utah State University, USA and University of Georgia, USA.
 - More than 35 faculty members of the college visited the leading research parks and incubation centers of the country situated at Hyderabad, Bengaluru and Chennai through funding of IDP-NAHEP, Pantnagar.

The Consistently Growing College with Exemplary Achievements

College of Agriculture is the first college of the university, which has always paved the path in front of the whole university in context of publications, patents, products and quality students. When I peep into the achievements of the college in the year 2023, then I feel pleasure to see that even more number of faculty members have crossed the list of publications in the journals with NAAS rating above 6.00 as compared to the earlier year. More than 70 faculty members have published in journals with NAAS rating above 6.0, in which many faculty members have published with NAAS rating above 8.00 and even above 10.00. It is a matter of more pleasure that more than 45 students have also published in journals above 6.00 NAAS rating who will be awarded in the College Annual Ceremony which is an exemplary practice. These achievements and contributions are an outcome of an encouraging and motivating ecosystem in the college for quality teaching, research, innovation, entrepreneurship and overall development. I also earmark the exemplary achievements of the college to win Vice-Chancellors' Debate Trophy in English consecutive third year in 2023, and also the Hostel Championship of University Athletic Meet 2023, in both men and women section by agriculture hostels— CB - I and Gandhi Bhawan. I also feel pleasure to look into the commendable achievements



Dr. Manmohan Singh Chauhan
Vice-Chancellor
GBPUA&T, Pantnagar

Promoting talent, generating excellence

The contributions of the college during year 2023 has significantly contributed in the university achievements of getting mapped in World QS ranking as well as Asia QS ranking, 2023. I wholeheartedly congratulate the college for its dynamism and constant growth made by strategic planning to involve each faculty member and also for the eagerness to do better each year by surpassing their own earlier achievements.

of the students of the college, where many students of the college have led their ways to premier institutions of the country through CAT, ICAR-JRF, ICAR-SRF and other important examinations. The students have made their ways to IIMs, IARI, NDRI, IVRI, PAU, HAU and many other premier institutions besides many foreign institutions like University of Warwick, England, University of Manitoba, Canada and many more for their higher studies, which is a matter of pleasure and satisfaction. Indeed the contributions of the college during year 2023 has significantly contributed in the university achievements of getting mapped in World QS ranking as well as Asia QS ranking, 2023. I wholeheartedly congratulate the college for its dynamism and constant growth made by strategic planning to involve each faculty member and also for the eagerness to do better each year by surpassing their own earlier achievements. I also earmark the good practices of recognizing exemplary contributions in College Annual Function held each year on the first day of the year. I personally participated in the event last year and felt extreme satisfaction looking into the ecosystem and contribution. I put my words of congratulations and greetings to the college leadership and all the faculty members for the robust achievements and exemplary performances. May the upcoming year bring more laurels to your college.

Requirements of NEP 2020 and College of Agriculture



Dr. S. K. Kashyap
Dean, College of Agriculture

Sustainability with Pragmatism

The College of Agriculture, Pantnagar is committed to provide the solution to the emerging challenges of agricultural education and research through incessant efforts of the capable and committed faculty members, which is emerging better and brighter with focus towards excellence.

College of Agriculture has been consistently performing with utmost focus on multi-disciplinarity. The eleven departments have been working together in different projects including All India Coordinated Research Projects (AICRP). It has been strongly observed in year 2023 that many research papers have come with multi-disciplinary teams. The thrust of the college towards upbringing a culture of coherence has started yielding in multiple respects. Efforts have been made to bring research scholars of the college together at many platforms, where they may look into the efforts of other sciences. The participation of faculty members and research scholars in technology readiness workshop, patent filing workshop, blended learning workshop are such examples where the whole college across the disciplines worked together to look into the depth of science from multiple angles.

The college is also moving forward towards research in natural farming, for which a dedicated project has been achieved. A distinct course is already there for organic and natural farming in the undergraduate curricula. A 15 days training was organized on natural farming under leadership and coordination of the college, in which faculty members from many agricultural universities participated. The efforts done under Technology Enabling Centre is also significant and distinct in carrying the university to the next level. The College of Agriculture, Pantnagar is committed to provide the solution to the emerging challenges of agricultural education and research through incessant efforts of the capable and committed faculty members, which is emerging better and brighter with focus towards excellence.

IDP-NAHEP :

The Process of System Reform

IDP-NAHEP has been an opportunity for Pantnagar. The Project incessantly worked to suffice the requirements of the faculty and students of the university through multiple interventions of visits, internships, trainings, workshops etc. The list of activities of year 2023 is enclosed hereby for reference and followup. The consistent efforts have translated in significant change in the awareness, outlook and skillset of the students

leading to tremendous change in the employability traits of the students. The NAHEP building kept bulging and glittering with evening classes and activities throughout the year with buses plunging from the NAHEP building to the hostels in night. The students got tremendous opportunities to build their potentials through IDP-NAHEP activities in multifarious ways. The glimpses of the events of 2023 is as follows :

Details of Trainings/Workshops/Guest Lectures/Interactive Sessions organized by IDP-NAHEP, Pantnagar from January 2023 to December 2023:

S. No.	Event	Date
1.	5 Days Workshop on Systematic Note Writing: Techniques and Tricks	04-08 January-2023
2.	Interactive Session on Defence as Career: The Selection Process	19-January-2023
3.	Offline Guest Lecture on Agriculture Market Research: An Emerging Career Option	09-February-23
4.	2-Week Crash Course on Agriculture for JRF Aspirants	06-20 February-2023
5.	Proficiency in Academic Writing: Preparing for Foreign Exposure Visit	06-11 February-2023
6.	Interactive Session on Higher Education and Internships Abroad in Veterinary Sciences: Options & Strategies	10-February-2023
7.	Guest Lecture on Packhouse Technology Automation: Equipment and Operations	11-February-2023
8.	Offline Guest Lecture on Remote Sensing and GIS Application in Agriculture	11-February-2023
9.	Interactive Session on Agripreneurship: Opportunities & Scope - Focus on Incubation Support and Schemes	21-February-2023
10.	Offline Guest Lecture of Overseas Expert on Predictive Microbiology and Risk Assessment Approaches for Food Safety	03-March-2023
11.	Guest Lecture on Fashion and Sustainability	17-March-2023
12.	5 Days Workshop on Mantras for Professional Profile Development	13-17 March-2023
13.	Offline Workshop On Goal Setting Exercise	25-March-2023
14.	Experiencing 360 learning	26-March-2023
15.	Guest Lecture on Entrepreneurship Development: Journey from Agrigraduate to Agripreneur	31-March-2023
16.	Educational Video Making Internship- 2.0	06-April-2023
17.	Interactive Session on Career Prospects in R&D Organizations, PSUs and Higher Studies	07-April-2023

18.	Guest Lecture on Data Analysis for Policy Evaluation	10-April-2023
19.	Interactive Session on Agriculture & Allied Financing: Changing Landscape, Career Prospects & Skills Required	11-April-2023
20.	Interactive Session on Commercial Landscape Designing and Horticulture Planning: Concept and Career Prospects	17-April-2023
21.	5 Days Workshop Let's work on Vocabs - A guarantee that you will learn 1000 new words	24-28 April-2023
22.	Experiencing 360 Learning through VR Headsets	27- April-2023
23.	5 Days Workshop Let's learn to write diary - The art of writing for self	13-17 May-2023
24.	One day Seminar on Insights of Successful Life	21-May-2023
25.	Interactive Session on Leadership Skills for University Graduates	19-May-2023
26.	Summer Internship Mela - Industry Startup Academia Interface (ISAI) - 2023	23-June-2023
27.	5 Days Workshop on Learning Best Practices of Literature Review - Make your Writing Evidence-Based and Convincing	02-06 July-2023
28.	Guest Lecture on Indian NARS: Progress and Challenges	07- July-2023
29.	5 Days Workshop on Good Practices in Formal Writing: A Must for All Students	21-25 July-2023
30.	Online Coaching and Training for IELTS	01-August-2023
31.	BRAIN 2023	04-06 August-2023
32.	5 Days Workshop on Using AI Tools for Improves Writing Skills	19-23 August-2023
33.	How to Emerge as an Entrepreneur: Insights from Successful Entrepreneurs	21-August-2023
34.	Innovating Agricultural Education Landscape : Technology, Entrepreneurship, Sustainability	27- August-2023
35.	Fostering Academic Leadership in Agriculture Workshop 2023	2-7 September-2023
36.	15 days Training on Natural Farming 2023	11-20 September-2023
37.	Communication Skills Workshop	September 20-27 October-2023
38.	10 Days Training on Veterinary Clinical Diagnosis	27-August-2023
39.	National Agri-Startup Conclave 2023	07-October-2023
40.	One Day Training on Practical Approaches in Agricultural Economics (Topic- Agricultural Finance and Project Management)	07-October-2023
41.	One Day Training on Practical Approaches in Agricultural Economics (Topic- Agricultural Pricing and Market Analysis)	10-October-2023
42.	Improved Production Technology of Vegetable Crops	7-14 September-2023
43.	Internship Pathshala on Data Management Skills	18-October-2023
44.	Offline Training Program on Industrial Trends in Food Quality Evaluation, Safety and Professional Skills Development	12-October -2023
45.	Modern Techniques Used in Soil Plant Analysis to Improve Soil Health	13-October-2023

46.	Training on Disease Diagnosis, Identification of Plant Pathogens, Isolation & Amplification; Mass Production of Biocontrol Agents	14-October-2023
47.	3 Days Training on Commercial Horticulture	17-19 October-2023
48.	Training Program on Radio Proogram Production	19-21 October-2023
49.	Training Workshop on Science Communication through Sciencetoons	18- October-2023
50.	Webinar on Overview of Crop Simulation Models and their Application in Agriculture	19- October-2023
51.	Interactive Classroom Session and Hands-on Discrimination of Different Crops Using Remote Sensing	21- October -2023
52.	Interactive Classroom Session and Hands-on Crop Water Requirement Using Geospatial Technology	22- October-2023
53.	Webinar on ought Monitoring and its Assessment	23- October-2023
54.	Interactive Classroom Session and Hands-on Studying Crop Phenology Using Google Earth Engine	23-October-2023
55.	Training on Analytical Techniques for Agronomic Research	24-October-2023
56.	Industry Academia Summit for SIDCUL Uttrakhand	18-November-2023
57.	National Women Entreprenerurs Summit (NEWS-2023)	02-December-2023
58.	An Interactive Session with National Coordinator, NAHEP	16-December-2023
59.	Hands On Training Programme on Blended Learning Platform	22-23 December-2023
60.	Innovative Working Model Contest on Digital Agriculture	30-December-2023

Department of Agricultural Communication



Left to right- Ist Row (Standing): Abhishek Kumar, Gaurav Beri, Monika Negi, Akansha Joshi, Ishita Mishra, Kuldeep Tomar, Ashmita Chauhan, Anamika Sharma, Jyoti Bhandari, Himanshu Umriyal, Shivani Rawat, Gagan Tripathi, Neha Pandey, Gyatri Pipaliya, Vanshika Gupta, Shakshi Bhatt, Drishtika, Pratiksha, Rajat Joshi.

IInd Row (Chair) - Dr. Amardeep (Professor), Dr. M.A. Ansari (Professor), Dr. S.K. Kashyap (Dean), Dr. V.L.V Kameswari (HOD), Dr. Kiran Rana (Assitant Professor), Dr. Arpita Sharma (Assistant Professor).

IIIrd Row (Sitting)- Anupriya Arya, Bhawika Bisht, Prerna Pakhawal, Riya Mehra, Aditi Pathak, Riya Goswami, Shreya Mishra, Merlin, Tejaswin Pandey.



Dr. V. L. V. Kameswari
Professor and Head

The genesis of Department of Agricultural Communication was held under the Centre of Advanced Studies in Agricultural Communication (CASAC) in collaboration with FAO, UNDP and ICAR.

Genesis with Mission and Vision

Since its inception in 1980, the Department of Agricultural Communication has achieved many landmarks and has been engaged in teaching and applied research with its developed academic programme and need based research activities. The department was created under the Centre of Advanced Studies in Agricultural Communication (CASAC) one of its own kinds with collaborative effort of Food and Agriculture Organization (FAO), the United Nations Development Programme (UNDP) and the Indian Council of Agricultural Research (ICAR). CASAC has specific objectives of developing its academic programme to produce skilled professionals, providing in-service training to media professionals and extension professionals and to create infrastructure for providing development support communication to different segments of the University for promoting effective teaching, training and extension. The academic curriculum for both M.Sc. and Ph.D. was developed by deliberations of Faculty of Agricultural Communication and Foreign Consultants. The faculty is trained from renowned foreign institutes/universities namely Syracuse University, University of Cornell, BBC (London), Philippines, Philadelphia, Wisconsin etc. for sharpening their skills. The specific areas in which the faculty was trained were educational technology, speech communication, distance learning, video & television production, information management and documentation, communication research, agricultural journalism, and technologies related with audio-

cassettes. The post graduate programme was started in the year 1981 and Ph.D. programme was started in the year 1992. From time to time the department changed its degree title, in 1994 it was changed from Agri. Communication to Development Communication. Keeping the directives of ICAR in mind for uniform curriculum, the department restructured its curriculum and degree title for Master's and Ph.D. degree it was changed to Agricultural Extension and Communication in the year 2005.

Mandate

Implementation of need based curriculum for producing professionals in the field of Extension and Communication. Strengthening and developing new programmes in Extension and Communication

- Developing IT enabled education.
- Prioritizing location specific and clientele specific research for Uttarakhand state in the field of extension and communication.

Faculty members in the department with their designation, e-mail id, mobile number and specialization

Sl. No.	Name	Designation	Specialization
1.	Dr. S.K.Kashyap	Dean	Agril. Journalism/ Extension Education
2.	Dr.V.L.V. Kameswari	Professor & Head	Television Production
3.	Dr. M.A.Ansari	Professor	ICT
4.	Dr. Amardeep	Professor	Educational Technology/Video Production
5.	Dr.Arпита Sharma Kandpal,	Assistant Professor	Gender Issues in Agriculture Extension
6.	Dr. Kiran Rana	Assistant Professor	ICT in Extension

Research projects with the name of funding agency, P.I. and Co-P.I.

Project Title	Funding Agency	PI & Co PI
Enhancing livelihood opportunities of farming community in mid-hills of Uttarakhand	ICAR	Dr. S. K. Kashyap, Dean, (PI) Dr. Anil Kumar Chahal (Co PI) Dr. Aman Kamboj (Co PI) Dr. Anil Kumar (Co PI) Dr. Lalit Bhatt (Co PI) Dr. Arпита Sharma Kandpal (Co PI) Dr. Kiran Rana (Co PI)

Programmes running in the department with number of seats (Uttarakhand domicile and ICAR)

Degree Programmes	Number of seats				
	Uttarakhand domicile	ICAR	Payment seat	Other state	Total
M.Sc	8	2	2	-	12
Ph.D	4	1	2	1	08

Salient achievements including students achievements in the year 2023

National awards/fellowships earned by the students in the year 2023

Name of student	Achievements
Sakshi Bhatt	Ucost youngest scientist award 2023
Gyatri	Best oral presentation, national conference, Hisar- 2023
Ramesh Nautiyal	Best poster presentation, National Conference, Hisar- 2023
Sravan	Second best poster presentation, National Conference, Hisar- 2023
Kanika Pandey	Qualified UGC-NET JRF 2022
Gaurav Beri	Qualified UGC-NET 2023
Ishita Mishra	Qualified UGC-NET 2023
Monika Kholiya	Qualified UGC-NET JRF 2023

Infrastructure development in 2023

Department of Agricultural Communication strengthened its facilities by adding infrastructure and equipment to support instruction for PG and Ph.D

students. Photography and video equipment have been purchased for hand-on training of students. Instructional media lab has been developed to provide necessary skills to the PG students.



Poster presentation Award 2023 in CCSHAU, Hisar



Teacher's Day Programme 2023



Training Programme on Science communication through Scientoons (30.10.23 to 01.11.23)



Training Programme on Radio Programme Production during 18-20 October 2023

Department of Agricultural Economics



Left to right - Ist Row (Standing): Himanshu Kumar Arya, Somya Tewari, Arti Bhandari, Garima Dwivedi, Amanda James V, Shambhavi Saklani

IInd Row (Chair): Dr. Shweta Chaudhary, Dr. Ajay Kumar Tripathi, Dr. Virendra Singh, Dr. H.N. Singh (HOD), Dr. S.K. Kashyap (Dean), Dr. Chandra Dev, Dr. S.K. Srivastava, Dr. Anil Kumar, Dr. Ruchi Rani Gangwar

IIIRD Row (Sitting): Saksham Veer Godara, Tanuja Khatri, Mansi Panwar, Saumya Singh, Ritik Rupain, Kanchan Joshi, Geetika Joshi, Pranjal Dangwal



Dr. H. N. Singh
Head

Department of Agricultural Economics emerged with the establishment of the University in 1960. It has built its expertise in all the major fields of agricultural economics and produced illustrious alumni contributing for agricultural and rural development.

Genesis with Mission and Vision

The Department of Agricultural Economics, College of Agriculture came into existence in 1960 with the onset of the university itself. Initially it is used to offer only undergraduate courses. The Masters' programme was started in 1963 followed by PhD programme in 1970. Acknowledging the need of trained manpower for banking sector, another Master's programme - *M. Sc. (Ag.) in Rural Banking* was also started in the year 1976 which successfully ran till 1992. In the last 61 years of its existence, the department has built up expertise in almost all the major fields of agricultural economics. As one of the oldest departments of this university, we can proudly proclaim to have produced a galaxy of alumni who rose to the positions of excellence in various walks of life.

Vision

The department aims at promoting Agricultural and Rural development with equity and sustainability through excellence in teaching, research, extension and training.

Mission

We aim to offer quality education and research programmes for generating best scientific and technical brains in the field of agricultural economics.

Mandate

The department engages itself in all the three core activities of teaching, research and extension which constitute the integrated system of education in the university. The major responsibilities of the department include:

- To offer core course(s) to the first degree programmes in Agriculture, Fisheries, Basic Sciences & Home Science.

- To offer Master's and Ph.D. degree programmes in Agricultural Economics.
- To conduct independent research in thrust areas of Agricultural Economics.
- To participate in multi-disciplinary research projects.
- To participate in extension activities of the university.
- To provide comments/opinion on policy issues and research, and field based information to government and other development departments.

Faculty Members

Team spirit of the faculty members of the department is pivotal factor which is a major strength. Presently department has following faculty:

Sl. No.	Name of Faculty Member	Designation	Specialization
1.	Dr. H. N. Singh	Professor	Farm Management and Production Economics
2.	Dr. Anil Kumar	Professor	Agricultural Marketing
3.	Dr. S.K. Srivastava	Professor	Farm Management and Production Economics
4.	Dr. Virendra Singh	Professor	Farm Management
5.	Dr. Chandra Dev	Professor	Farm Management
6.	Dr. Shweta Chaudhary	Assistant Professor	Farm Management ,Agri. Finance, Production Economics, Policy issues & IPR related matter
7.	Dr. Ruchi Rani Gangwar	Assistant Professor	Agricultural Finance and Farm Management
8.	Dr. Ajay Kumar Tripathi	Assistant Professor	Agricultural Marketing, Cooperation, Finance & Insurance

Research Project running in the Department

The department has the honour of completing a significant number of externally funded research projects. In 2021, following research projects are in operation:

Name of the Project	Funding agency	P.I.	Co-P.I.
All India Coordinated Research Project on Integrated Farming System (AICRP-IFS)	ICAR	Dr. Rohitashva Singh, Professor	Dr. A.K. Tripathi
Stress tolerant rice for Africa and South Asia (IRRI)	IRRI	Dr. H.N. Singh	Ended June, 30, 2023

Programme running in the Department

Degree Programmes	Number of seats				
	Uttarakhand domicile	ICAR	Payment seat	Other state	Total
M.Sc.	8	2	-	-	10
Ph.D.	3	1	-	1	04

Department caters to the requirement of UG courses of other colleges/programmes viz.,

- College of Basic Sciences & Humanities
- College of Fisheries
- College of Home Science
- B. Tech. (Food Tech.)

Salient Achievements of the Department

Students Achievements

- Ph. D. Student Ms. Deepali Chadha joined as Scientist in IRRI
- P.G. student Mr. Amit Singh Chauhan qualified UGC and ICAR SRFs and admitted in IARI, New Delhi for his Ph. D. degree.
- Bhumit Sah placed in ITC Pvt. Ltd. as Post Graduate Agri Trainee with 6.6 LPA.

Faculty achievements

- **Research papers: 06 (NAAS rating >6.0) : 02 Total: 10**
- Popular Articles: 04
- Conference/ workshop/ webinars/winter schools/ Moocs attended: 04
- Lecture delivered by the faculty members in conference/ Training: 05
- Working as academic counselor for the course MNRE 1, 2, 15 & 16, Agricultural Policy for E-Vidhya bharti Project for PG certificate in Agril. Policy, under IGNOU regional centre, Dehradun (Dr. Shweta Chaudhary)
- Working as academic counselor for the courses MNRE 1, 2, 15 & 16 Agricultural Policy for E-Vidhya bharti Project for PG certificate in Agril. Policy, under IGNOU regional centre, Dehradun (Dr. Ruchi Rani Gangwar)

Other Remarkable Development/ Contributions by the Department

Training/ lectures/other activities organized by the department

- Dr. H. N. Singh : Organized two field trainings to strengthen the knowledge of rice farmers by three broader components as 1. Improved rice production technique, 2. Plant protection measures and 3. Constraints of modern rice varietal adoption on farmers field in hills in district Dehradun with following details.
- 3 days training organized on Practical Approaches in Agricultural Economics for UG students in the

department of Agril. Economics, GBPUAT, Pantnagar from 7, 10 & 17th Oct, 2023 (Dr. Shweta Chaudhary Coordinator and Dr. Ruchi Rani Gangwar, Co-coordinator of the Training Programme)

- Organised Brain storming session on current national and international economics issues on 5 December 2023 in Deptt of Agril Economics, GBPUAT, Pantnagar (Dr Shweta Chaudhary)

Others

- An Exposure Visit to Bangalore in order to study protected cultivation, hydroponics and other aligned commercial units during 11-14 Dec 2023 (Dr. Shweta Chaudhary)
- Organized Y-20 Consultation activities on 22/4/2023 for the students of university as a co- staff counselor of University Literary Team (Dr. Ruchi Rani Gangwar)
- Participated in Telengana Day celebration on 2nd June 2023 at Rajbhawan, Nainital, Organized Alumni meet of Batch 1999-2003 college of Agriculture on 10th June 2023 as per the direction of Vice Chancellor, GBPUAT. (Dr. Ruchi Rani Gangwar).

The College grew from strength to strength and has emerged as a foremost unit in the world of higher learning and research. In the last 59 years of its existence, the department has built up expertise in almost all the major fields of agricultural economics. The Department has pride in producing a galaxy of alumni who rose to positions of excellence in various walks of life.



3 Days Training organized by the department of Agriculture Economics on practical approach in Agricultural Economics

Department of Agrometeorology



Left to Right - Ist Row (Standing): Ms. Hema Mehra, Ms. Pooja Yadav, Dr. Shivani Kothiyal, Ms. Tanisha Gehlot, Ms. Harshita Rana, Ms. Neha Chand, Ms. Shubhika Goel, Mr. Siddhant Gupta, Mr. Parmesh Biradar, Mr. Abhinav Bhatt, Mr. Anurag Satpathi.

IInd Row (Chair) : Dr. Ravi Kiran (HOD), Dr. S.K. Kashyap (Dean), Dr. Rajeev Ranjan.



Dr. Ravi Kiran
Head

The primary objective of the department is to help the farmers in practicing and encouraging weather-responsive farming in Uttarakhand to achieve maximum production, utilization of resources and protect the natural environment from various weather hazards at the same time.

Genesis with Mission and Vision

Considering the significance of weather and climate and their influence on crop growth, development and yields, Department of Agrometeorology came into existence in the year 2000 after the bifurcation of the Department of Soil Science. The M.Sc. Programme in Agrometeorology was initiated in 1995, while Ph.D. programme started in 2000. Department is imparting education to UG, PG and Ph.D. students related to application of meteorology in Agriculture. It is continuously taking up research projects related to Agrometeorology, Weather forecasting, Remote Sensing and GIS for devising methodologies/techniques for sustainable agriculture production and precision crop management.

Vision

- To develop the department as a Center of Excellence for imparting quality education and conducting cutting edge research in the field of crop-weather interaction, pests/diseases-weather interaction, Agri-Informatics, etc. for their

usage in agriculture and sustainable natural resource management.

- To provide Agromet Advisory Services (AAS) based on medium range weather forecast to the farmers of all districts of Uttarakhand through the District Agromet Unit (DAMU) at KVKs.
- To develop Remote Control Airplane with MSS camera for training purposes and later on to monitor crop data disease identification, crop gap monitoring, soil moisture estimation etc.
- To prepare District Level Crop Weather Calendars of Major Crops in Uttarakhand

Mission

- Weather observation, database creation and dissemination to researchers, farmers and extension workers.
- To participate in extension activities of the University for the benefit of farmers.
- Active participation in university activities and to work for the upliftment of university and society.

Mandate

Teaching

- To run postgraduate programme (M.Sc. Ag. and Ph.D.) in the field of Agrometeorology.
- To contribute actively in the under-graduate programme (B.Sc. Ag) of the College.

Research

- To conduct quality research in crop-weather relationship, crop simulation modeling, climate change, weather based AAS, RS and GIS applications for enhancing farm productivity.
- To study climate change and its impact on crop yield,

modifications to alleviate environmental stress, evapotranspiration and water requirements of crops.

- To prepare contingent crop plan for all the districts of Uttarakhand based on the weather aberrations experienced in the few decades by understanding the historical weather trends.
- To climatically classify the state for framing efficient agricultural policies, technologies and taking sustainable agricultural decisions to conserve natural resources.
- To understand the microclimatic conditions and their relationship with different stages of the crops and how their modifications are helpful in sustainable agricultural practices in the long run.
- To integrate remote sensing, AI methods and ML techniques to study and understand the crop-diseases relationship for efficient agricultural techniques.

Extension

Medium Range Weather Forecasts are received twice a week (Tuesday and Friday) for Udham Singh Nagar and Nainital districts from IMD, Pune in collaboration with MC, Dehradun. Agromet Advisory Bulletins (AABs) in English & Hindi are prepared based on the forecast with the inclusion of the NDVI & SPI outputs through Agromet DSS (agromet.imd.gov.in). The AABs prepared on district and block level are disseminated to local newspapers, NGOs, progressive farmers through Email and uploaded on University (<http://www.gbpuat.ac.in>) & IMD website with SMS's (<http://www.imdagrimet.gov.in>) regularly. SMS's regarding the predicted weather and plant protection measures are sent to about 85,000 farmers, registered through mKisan portal, Govt of India (<http://mkisan.gov.in>). Weather forecast, observed weather and advisory are also provided on mobile through Meghdoot App and Kisansubhidha App. The AAB service is provided through local WhatsApp groups running for the two districts and seven blocks of US Nagar over which around 2300 farmers and SMS are connected.

Faculty Members

S. No.	Name of Faculty Member	Designation	Specialization
1.	Dr. Ravi Kiran	Professor & Head	Agrometeorology, Crop Weather relations, Crop Modeling
2.	Dr. R.K. Singh	Professor	Agrometeorology, Dynamic Meteorology, Crop Weather Modeling, Climatic Characterization
2.	Dr. A.S. Nain	Professor & DES	Agrometeorology Crop Modeling Remote Sensing, GIS, Precision Farming, Climate Change
3.	Dr. Rajeev Ranjan	Assist. Professor	Agrometeorology, Crop Weather modeling, Remote Sensing & GIS

Research projects running in the Department

S.No.	Name of Project	Funding Agency	PI	Co-PI
1.	GKMS	IMD, New Delhi	Dr. A.S. Nain	-
2.	FASAL	IMD, New Delhi	Dr. A.S. Nain	-
3.	Developing a Novel System for Monitoring and Management of Crop Diseases using AI (Artificial Intelligence)/ ML (Machine Learning) Techniques (MoM-CAT)	IIRS, ISRO, Dehradun	Dr. A.S. Nain	Dr. Rajeev Ranjan
4.	Drone Research and Development Grant	Bio-efficacy projects	Dr. A.S. Nain	Dr. Rajeev Ranjan

Programme running in the department

S. No.	Degree	No. of Seats		Total
		Uttarakhand domicile	ICAR	
1.	M.Sc. Ag. Agrometeorology	03	00	03
2.	Ph.D. Agrometeorology	03	01	04

Salient Achievements of the Department

Faculty

- Dr. Rajeev Ranjan assigned as the Co-PI in PFDC project entitled “Demonstrations of latest horticulture technologies” for the activities scheduled for the year 2023-24.
- Dr. Rajeev Ranjan coordinated the training program (18-20 October, 2023) on “Application of Geospatial Technology in Agricultural Resource Assessment for UG & PG students in collaboration with IDP-NAHEP, Pantnagar.
- Dr. R. K. Singh attended the ICBES-2023 held at Mizoram University, Aizawl during 14-16 June.
- Dr. R K. Singh had a live talk with KisanTak regarding “EL Nino Effect on Monsoon” on 20/06/2023.
- The Department took an exemplary step of regularly cleaning the classrooms, laboratories and chambers.
- A field visit to the IMD established agrometeorological observatory was arranged for the on 28.06.2023.
- Dr. Rajeev Ranjan was appreciated for his valuable contribution as Faculty Coordinator in organizing National Agri-Startup Conclave held on October 7, 2023 under IDP-NAHAEP at GBPUAT, Pantnagar.

Students

S No.	Student & RF	Achievement
1.	Dr. Manjari Singh	PDF-Climate Sciences at CGIAR-CIAT, Dakar, Senegal
2.	Dr. Sonam Sah	ARS-2021 at the ICAR-ARS examination held in 2022
3.	Mr. Chinmaya Kumar Sahu	Junior Agrometeorologist in AMFU, OUAT, Bhubaneswar
4.	Ms. Shubhika Goel & Ms. Tanisha Gehlot	Training program on APSIM organized by ICAR-NAARM, Hyderabad
5.	Mr. Karan	1 st rank in ICAR-SRF examination, 2023
6.	Mr. Shekhar Acharya	5 th rank in ICAR-SRF examination, 2023
7.	Dr. Parul Setiya, Ms. Evakordor Kuparjyruwa, & Dr. Shivani Kothiyal	Project Scientist-I in IMD under GKMS scheme
8.	Mr. Shekhar Acharya, Ms. Soumya Pokhriya, Ms. Tanisha Gehlot and Mr. Parmesh	ICAR-NET, 2023
9.	Ms. Shubhika Goel	1 st prize for paper presentation in the ICBES-2023 held at Mizoram University, Aizawl
10.	Ms. Shubhika Goel	Training cum Workshop on “Airborne Hyperspectral Remote Sensing for Agriculture” organized by ICAR-IARI.

Guest Lectures delivered

- Dr. A.S. Nain gave orientation & lecture in a training programme for Master Trainers on “Climate Smart Agriculture” hosted by GBPUAT, Pantnagar
- Dr. Rajeev Ranjan delivered lecture in training programme on “Sustainable Agricultural Water Management Options Under Changing Climate” hosted by ICAR-IIWM in collaboration with MANAGE, Hyderabad.
- Dr. Rajeev Ranjan delivered a lecture in training programme for Master Trainers on “Climate Smart Agriculture” hosted by GBPUAT, Pantnagar.
- Dr. Rajeev Ranjan delivered a lecture in a training course on RS-GIS applications in land resource assessment at CoE-SLM established at ICFRE, Dehradun.
- Dr. R.K. Singh & Dr. Rajeev Ranjan delivered a lecture to the ADOs and progressive farmers under the subject “कृषि में इलेक्ट्रॉनिक्स, सूचना एवं संचार क्रांति का उपयोग” organized by SAMETI, GBPUAT, Pantnagar.

Publications

S. No.	Publications	Number
1.	Research Papers	15
2.	Popular article	10
3.	Book/Book Chapter	03



Three days training program on “Application of Geospatial Technology in Agricultural Resource Assessment held from 18-20 October, 2023 for UG & PG students

Department of Agronomy



Left to right- Ist Row (Chair): Dr. D.K.Singh (Professor), Dr. M.S. Pal (HOD), Dr. S.K. Kashyap (Dean), Dr. Anil Shukla (Professor)

IInd Row (Chair)- Dr Rajeew Kumar (Professor), Dr. Sumit Chaturvedi (Professor), Dr. Gurvinder Singh (Professor), Dr. D.K.Shukla (Professor), Dr. S. P. Singh (Professor), Dr. Vineeta Rathore(Assistant Professor), Dr. Amit Bhatnagar (Professor)

IIIrd Row (Standing)- Vaishnavi, Anjali uniyal, Akanksha Rawat, Ayushi Dimri, Paras Arya, Sachin Kumar Arya, Shivam Rana, Sumit, Dr. Kranti Kumar (Assistant Professor), Dr. Amit Kessarwani (Assistant Professor), Shakshi Gosawmi (M.sc 2 year Agronomy)

IV Row (Standing)- Andhalkar Shraddha Rajkumar, Himanshu, Banke Bihari, Aman Rawat, Akhilesh Juyal, Umesh Bhagal.



Mahendra Singh Pal
Head Agronomy

Department of Agronomy is one of the oldest departments of the college. Considering the competence and advance facilities available in the department, ICAR sanctioned Center of Advance Studies in agronomy in 1994 which was further upgraded to the Center of Advance Faculty Training in 2010.

Genesis with Mission and Vision

It is the oldest department of the College of Agriculture established in 1960. The master's Program in Agronomy started in 1963 and Ph D in 1965.

Vision

A centre with unparallel knowledge domain through cutting edge basic and applied research with innovative teachings to generate sustainable & efficiency centric technology and globally competitive human resource.

Mission

- Generate globally competitive Human resources, and
- Develop efficiency centric agro-technology to cater the demand of society, farmers and industries.

Mandate

- Updating department to keep pace with the changing national and International demands

- Developing human resource in field of agriculture.
- Developing/modifying curricula according to changing needs.
- Developing demand driven specific technologies for crops and cropping system.
- Documenting ITK's and farmers practices and develop methodology for judicious and sustainable use of natural resources.
- Generating cost effective Agro-technologies for higher benefits.
- Developing prospects of self-employment.
- Developing organic package and practices for crops and cropping systems.

Emminent faculty of Department

1. Dr M C Saxena, ADG, International Centre for Agricultural Research in Dry Areas, Aleppo, Syria.
2. Dr P P Singh: VC, Sardar V P Univ. of Agric & Tech, Meerut
3. Dr Arvind Kumar: VC, Rani Laxmi Bai Central Agric. Univ, Jhansi (UP),
4. Dr B S Mahapatra: VC, Bhidhan Chandra Krishi, Vishwavidyalaya, Mohanpur (WB)

List of Faculty

Sl. No.	Name of Faculty	Designation	Specialization
1.	Dr. M.S. Pal	Professor	Maize, Oilseed & Forage Agronomy, Irrigation water & nutrient management
2.	Dr. Subhash Chandra	Chief Scientist	Water management, Integrated Farming System
3.	Dr. Rohitashav Singh	Professor	Weed management in crop & cropping system, integrated farming system & agronomy of forage crops
4.	Dr. Anil Shukla	Professor	Rapeseed & mustard agronomy and soil fertility
5.	Dr. Sunita T. Pandey	Professor	Medicinal Plant Agronomy, Weed management, Agriculture heritage, vrikshayurveda
6.	Dr. V.K. Singh	Professor	Cropping system, soil fertility & pulses agronomy
7.	Dr. D.K. Singh	Professor	Rice and Organic Farming
8.	Dr. S.K. Lavania	Professor	Agro-forestry/forestry
9.	Dr. M.S. Negi	Professor	Oilseed agronomy and medicinal & aromatic plants agronomy
10.	Dr. Naresh Malik	Professor	Sugarcane & Hill agriculture
11.	Dr. Tej Pratap	Professor	Weed management, Hill agriculture
12.	Dr. Omvati Verma	Professor	Seed production technology, seed physiology, storage & testing
13.	Dr. S.P. Singh	Professor	Conservation on agriculture weed management
14.	Dr. Rajeew Kumar	Professor	Precision agriculture, nanotechnology and wheat agronomy
15.	Dr. Amit Bhatnagar	Professor	Soil Fertility, Nutrition of plants, Nutrient Management
16.	Dr. Gurvinder Singh	Professor	Water management, crop management
17.	Dr. Dinesh K. Singh	Professor	On farm research
18.	Dr. V.C. Dhyani	Professor	Weed and Nutrient Management, Conservation Agriculture, Crop Physiology
19.	Dr. Sumit Chaturvedi	Professor	Climate change viz a viz conservations agriculture, nutrient management, cropping system research
20.	Dr. Kranti Kumar	Assistant Professor	Medicinal and aromatic plants
21.	Dr. D.K. Shukla	J.R.O.	Sorghum Agronomy
22.	Dr. S. K. Yadav	Assistant Professor	Rice and organic farming

23.	Dr. Ajay Kumar	Assistant Professor	Soybean agronomy, millets, hill agriculture and soil fertility
24.	Dr. Amit Kesarwani	Assistant Professor	Sustainable Agriculture, wheat agronomy, resource conservation technology
25	Dr. Vineeta Rathore	Assistant Professor	Conservation agriculture, nutrient management & medicinal & aromatic plants

Research Projects with PI

a. List of AICRP Projects

SN	Name of Project	Name of PI
1.	AICRP on Rice	Dr. D K Singh
2.	AICRP on Wheat and Barley Improvement	Dr. Rajeew Kumar
3.	AICRP on Irrigation Water Management	Dr. Gurvinder Singh
4.	AICRP on Soybean	Dr. Ajay Kumar
5.	AICRP on Rapeseed & Mustard	Dr. M. S. Negi
6.	AICRP on MULLaRP	Dr. V. K. Singh
7	AICRP on Chickpea	Dr. V K Singh
8	AICRP on Pigeon Pea	Dr. V K Singh
9.	AICRP on IFS	Dr. Rohitashv Singh
10	AICRP on Weed Control	Dr. T P Singh
11.	AICRP on Forage Crops	Dr. M S Pal
12.	AICRP on NSP (Crops) Seed Technology Research	Dr. Omvati Verma
13.	AICRP on Maize	Dr. Amit Bhatnagar
14.	Network project on Organic Farming	Dr. D K Singh

b. Externally Funded Research Projects

SN	PI of the project	Title of Project	Funding Agency	Amount (Rs.)	Duration of the project
1.	Dr. Sunita T Pandey	Vrikshayurved Centre for Research and Training	Ministry of Education, in collaboration with the Ministry of Culture, Government of India	35.84 Lakh	30.08.23 - Aug. 2025
2.	Dr. Sunita T Pandey	To employ 5 interns to work in the project entitled "Documentation & validation of our Vrikshayurveda based glorious agriculture heritage, with respect to Poshnavidhi (Nutritional care and management) and Drumaraksha (Protection of plants) for safe and sustainable food production.	Ministry of Education, in collaboration with the Ministry of Culture, Government of India	-	2023
3.	Dr. Sunita T Pandey	To develop the guidelines for natural products	APEDA	-	2023

4.	Dr. D. K. Singh	Greening Rice Ecosystem through Innovative Technologies for Reducing Water and Carbon Foot Prints in Uttarakhand	Mls Core CabonX Solutions Private Limited, Hyderabad	36.75 lacs	2023
5.	Head Agronomy	DST Sponsored Fund for Improvement of S&T infrastructure by DST, GoI	DST, New Delhi	50.0 lacs	2018-2023
6.	Dr. Rajeew Shukla	Development of Steel Slag based Cost Effective Eco-Friendly Fertilizers for Sustainable Agriculture and Inclusive Growth	Ministry of Steel, GOI.	68.0 lakh	2021-2024
7.	Dr. Rajeew Shukla	Network project on nano fertilizers	IFFCO	30.0 lakh	2022-2024
8.	Dr. Rajeew Shukla	Studies the impact of super nano urea and nano DAP on rice- wheat cropping system of Uttarakhand	IFFCO	58.0 lakh	2023-2026
9.	Dr. Sumit Chaturvedi	Evaluation of ASN (Ammonium Sulphate Nitrate, 26%N + 31% SO ₃ , granular) fertilizer for yield and quality enhancement of sugarcane	ROSIER SA Pvt. Ltd., Belgium	15.0 lakh	2021-2024
10.	Dr. Sumit Chaturvedi	Response of CropTek 9 complex fertilizer grade in sugarcane crop	MahadhanAgriTech Ltd	10.0 lakh	2022-2025
11.	Dr. S.K. Yadav	Evaluation Of Effectiveness Of Zero Budget Natural Farming Inputs And Prevailing Organic Farming Practices In Rice-Wheat Cropping System In Tarai, region of Uttarakhand	UCB, Haldi	8.5 Lakh	2022-25

Program running in the department

- FIST-DST
- Centre of Advanced Faculty Training (CAFT)-Sponsored by Indian Council of Agricultural Research (ICAR) w.e.f. 1994 till date.

Degree	Total students	Current Year (2023)
M.Sc. (Ag)	25	19
Ph.D.	21	05

National Awards/fellowship earned by the faculty/student in the year 2023

Name	Award
Dr Sumit Chaturvedi	Fellow- Indian Society of Agronomy (AISA), New Delhi
Dr. Amit Kesarwani	Awarded with design patent (Registration no. 394825-001) dated 11/09/2023

a. Publication

S.N.	Particulars	Number of Publications
1.	Research papers	11
2.	Popular Articles	04
3.	Book Chapters	02
4.	Research paper presentation in conferences/ symposium	06

Infrastructure development in 2023

- Procurement of Atomic Absorption Spectrophotometer (01)
- Computer Lab: Procurement of 12 Computers in the department
- Renovation of Crop Physiology Lab of Agronomy Department
- Renovation of Crop Physiology Field House of NEBCRC

Foreign Visits by the faculty

- Dr. M. S. Pal Participated in International Grasslands Congress held on 14-19 May 2023 at Covington, Kentucky, USA.
- Dr. V.C. Dhyani and Dr. Sumit Chaturvedi Short Term Scholars from 18.03.2023-18.04.2023 at Clemson University South Carolina, USA
- Dr. V.C. Dhyani and Dr. Sumit Chaturvedi Participated and presented paper at International Rice Congress at IRRI, Manila, Philippines from 16-19, October, 2023.
- Dr. Amit Kesarwani, Assistant Professor, Dept. of Agronomy were on two months academic visit cum training under faculty exchange program of IDP-NANEHP, Pantnagar in Western Sydney University (WSU), Hawkesbury campus of Sydney, Australia during August to October second week.
- Dr. D.K. Singh, Professor, Dept. of Agronomy participated and presented paper at International Rice Congress at IARI, Manila, Philippines from 16-19 October, 2023.
- Dr. D.K. Singh, Professor, Dept. of Agronomy were on 10 days visit cum training under faculty exchange program of IDP-NANEHP, Pantnagar in University of Queensland, Australia during 01 Dec-10 Dec, 2023.

Students' achievements

S.No.	Name of the student	Selection	Year
1	Dr. Shivendra Singh, PhD Student	Selected as Assistant Professor, RLBCAU, Jhansi	2023
2.	Dr. Priyashi Nayak	Selected as Assistant Professor in private institute, Odisha	2023
3.	Ms. Krishna KM	Selected in SRF-ICAR Examination-8 th Rank Got UGC-JRF Fellowship for PhD	2023
4.	Pratham Belwal (51489)	Selected as Trainee Agronomy Officer in Jubilant Food Works Limited	2023

Activities organized in the Department as Head Agronomy+ 02

- Special lecture on, 'Certification of organic produce' was delivered on 2nd June 2023 by Dr M K Gupta, Assistant Director, National Centre for Organic and Natural Farming, Ghaziabad organic farming.



- Three days training on 'Analytical techniques for Agronomic Research' from 26-28 October 2023 held where nearly 47 PG and Ph.D students successfully participated and following lectures were delivered:





Training programme on 22-09-2023



Awareness Programme on 19-10-2023



Input distribution for demonstrations



Demonstration on organic farming

Department of Entomology



Left to Right - I Row (Standing) : Ms. Meenakshi Arya, Ms. Saba Tanveer, Mr. Rajat Mohan Bhatt, Ms. Khanika Pal, Ms. Poornima Singh, Mr. Moorthy A V, Ms. Dipti Joshi, Ms. Sapna, Mr. Ashutosh, Mr. Suraj Mehrotra, Ms. Smriti Kamal, Ms. Riya, Ms. Deepika Jeengar, Ms. Sarika Rawat, Ms. Mamta Pandey, Mr. Srikanth N, Ms. Aakriti Gusain, Mr. Farhan Ahmed, Ms. Narne Kavya, Mr. Ankur Negi, Mr. Manoj Joshi, Mr. Ankit Uniyal, Mr. Shudhanshu Baliyan

II Row (Chair) : Dr. Meena Agnihotri, Dr. Poonam Srivastava, Dr. M.S. Khan, Dr. A.K. Pandey, Dr. S.K. Kashyap (Dean), Dr. Pramod Mall (HOD), Dr. R.M. Srivastava, Dr. J.P. Purwar, Dr. R.P. Maurya

III Row (Sitting) : Ms. Dharanikota Lalithambica Devi, Ms. Rajnni Dogra, Ms. Mamta Joshi, Ms. Roopam Kunwar, Mr. Boddepalli Abhinash, Mr. Akhil Kumar, Mr. Hassan Beg, Mr. Ashutosh Singh Sisodiya, Mr. Sourabh Maheshwari, Ms. Ritu Mishra

IV Row (Sitting) : Mr. Prajjwal Arya, Mr. Prafull Sati, Mr. Ravindra Prasad, Mr. Abhinav, Mr. Akhilesh Singh, Mr. Utkarsh Singh Vishen, Ms. Monika Rauthan, Ms. Thokala Divyavani, Ms. Isha Hemdan, Ms. Anamika Saxena, Ms. Goutami Manral, Ms. Pragati Dabral



Dr. Pramod Mall
Professor & Head

Department of Entomology has developed advanced crop protection technologies for all the major crops of Northern India and disseminated it to farmers of this region which have resulted in successful integrated management of insect pests of various crops.

Genesis with Mission and Vision

The Department of Entomology was established in 1964 envisaged to impart teaching for undergraduate students of B.Sc. Ag encompassing various research activities on different crops and extension of crop protection technology from Lab to land. The department commenced M.Sc. (Ag.) and Ph.D. programme in 1970 and 1979 respectively to foster its quality research and teaching. Presently, the department is having 18 M.Sc. and 12 Ph.D. seats for the students offering more than 37 courses in various specialized field. Owing to the concerted efforts, the department has developed advance crop protection technologies for all the major crops which are being incessantly being disseminated to the farmers ensuing spectacular integrated pest management in various crops. The veteran faculties of the department and PG, Ph.D. scholars concomitantly endeavouring their utmost devotion to evolve best technologies of crop protection and best management of friend insects including pollinators. The department has recently procured G.C.-ms to residue an analysis or any contamination in food commodities or Bee hive products. In recent past, a quality control Lab for bee hive product and Bee-clinic has been established and equipped with most advance equipment.

Mission

The mission of the department is to evolve best suitable technologies in field of Entomology. The department is pursuing to produce best scholar in various field of Agriculture. The advance scientific technologies developed through various research trials are being disseminated through publication, teaching and various extension activities from lab to farmers' field.

Mandates of the Department

1. Evolving professionals in the various field of entomology
2. To develop expertise through inculcating concept, theories and emerging methods of entomology in bid to become worthy scientist or teachers.
3. Adequate and effective guidance to make our students self-motivated researchers and also enabling them to diagnose the problems in the field and resolve them on the basis of knowledge achieved during course of study.
4. Develop adroitness to become entrepreneurs for job creators rather seeker
5. To prepare our students to be result oriented scientists and practitioners in entomology

Faculty of Department of Entomology

S.N.	Faculty Name	Designation	Specialization
1	Dr. Pramod Mall	Professor and Head	Apiculture, Insect Pollinator, IPM
2	Dr. M.S. Khan	Professor	Insect Pollination, Oil Seed
3	Dr. A.K. Pandey	Professor	Soil Insect, Rice & storage entomology
4	Dr. R.M. Srivastava	Professor	Vegetable Entomology, Molecular Entomology, Pesticide Residue Analysis
5	Dr. Poonam Srivastava	Professor	Horticulture Entomology, Sericulture
6	Dr. Ruchira Tiwari	Professor	Natural Beekeeping, IPM, Storage Entomology, Wheat and Pulse Entomology
7	Dr. Meena Agnihotri	Professor	Taxonomy, Pulse Entomology, IPM
8	Dr. J. P. Purwar	Professor	Pulse Entomology, Toxicology/ Nano Technology
9	Dr. R.P. Maurya	Associate Professor	Bio control, IPM, Sorghum
10	Dr. Renu Pandey	Assistant Professor	IPM, Insect Pathology, Bee Pathology

Research projects running

SN	Name of the project	Name of PI/Co-PI	Funding agency
All India Coordinated Research Projects			
01	AICRP on Honeybees & Pollinators	Dr. Pramod Mall, PI	ICAR
02	AICRP on Mustard & Rapeseed	Dr. M.S. Khan, PI	ICAR
03	AICRP on Rice	Dr. A.K. Pandey, PI	ICAR
04	AICRP on Potato	Dr. R. M. Srivastava	ICAR
05	AICRP on Subtropical Fruits	Dr. Poonam Srivastava, PI	ICAR
06	AICRP on Pigeonpea	Dr. Ruchira Tiwari, Overall PI (Pulse) PI	ICAR
07	AICRP on Soybean	Dr. Renu Pandey, PI	ICAR
08	AICRP on Chickpea	Dr. Meena Agnihotri, PI	ICAR
09	AICRP on MULLaRP	Dr. J. P. Purwar, PI	ICAR
10	AICRP on Biological control	Dr. R. P. Maurya Co-PI	ICAR
11	AICRP on Sorghum	Dr. R. P. Maurya PI	ICAR

Ad-hoc Projects				
National Projects				
1	Establishment of Integrated Bee keeping and development center	Dr. Pramod Mall, PI Dr. J.P. Purwar, Co-PI Dr. Renu Pandey, Co-PI	National Bee board, N. Delhi	151.00
2	Women empowerment through beekeeping entrepreneurship development for sustained income generation	Dr. Pramod Mall, PI Dr. J.P. Purwar, Co-PI Dr. Renu Pandey, Co-PI	FMC, India	104.00
3	Setting of quality control laboratory for bee products	Dr. Pramod Mall, PI Dr. J.P. Purwar, Co-PI Dr. Renu Pandey, Co-PI	NBHM Ministry of Ag., N. Delhi	88.00
4	Setting of honey bee disease and diagnosis laboratory	Dr. Renu Pandey, PI Dr. Pramod Mall, Co-PI Dr. J.P. Purwar, Co-PI	NBHM Ministry of Ag., N. Delhi	26.19
5	National Seminar on awareness on beekeeping	Dr. Pramod Mall, PI Dr. J.P. Purwar, Co-PI Dr. Renu Pandey, Co-PI	NBHM Ministry of Ag., N. Delhi	5.18
6.	Bee-flora Plantation at IBDC Pantnagar for promotion of beekeeping and enhancing biodiversity in Himalayan Region	Dr. Pramod Mall, PI Dr. J.P. Purwar, Co-PI Dr. Renu Pandey, Co-PI	NBHM Ministry of Ag., N. Delhi	2.60
7.	Molecular characterization of whitefly fauna in Uttarakhand and implementation of bio-intensive pest management practices in Tomato	Dr. RM Srivastava, PI Dr. BR Singh, Co PI	Uttarakhand council of Biotechnology	40.0

Programme running in the department

S. N.	Programme	No. Students Admitted			Payment seat	Total
		Uttarakhand Domicile	Other state	ICAR		
1	M.Sc.(Ag.)	12	-	04	03	19
2	Ph. D.	08	02	02	04	16

Salient achievements

- Bioefficacy trials on various crops, vegetable, fruits funded by Agrochemical companies were conducted by faculty members.
- Installed GC-ms in Bee hive quality control lab.
- Published novel information on the nesting details of four trap nesting Indian *Megachile* bees and nesting biology of three *Challomegachile* bees for the first time.
- Published novel information on the nesting biology of the golden mining bee, *Nomia aurata* from India for the first time.
- Eco friendly insect pest management in pigeon pea crop.
- Studied the biology of rose beetle (*Adoretus versuturs*) from Tarai foothills of Kumaon region in India
- Studied plant volatile mediating orientation behavior of adult litchi borer, *Conomorphasinensis*
- Biosynthesis of silver nanoparticles and its combined synergistic effect with entomopathogens, *Beauveria bassiana* against *Spilartica obliqa* in greengram.
- Rearing of black soldier fly for organic waste management has been initiated in Biological control Lab. One new egg parasitoid, *Cheilonemus* sp. has been reported from sugarcane crop.
- Five indigenous strains of entomopathogenic fungi were submitted to IMTECH, Chandigarh.

Foreign Visits by the faculty

- Dr R.M Srivastava, Professor, visited Texas University USA from 15 August to 15 September, 2023.

Invited lectures

- Dr. Pramod Mall was invited for delivering lecture on beekeeping in 21 days Advanced training at Center of excellence at CCSHAU, Hisar in October, 2023
- Dr. Pramod Mall was invited for delivering lecture in Department of Plant Protection on advanced on beekeeping at Banda Ag University, Banda in August, 2023
- Dr. Pramod Mall was invited for delivering lecture in Department of Plant Protection on Honey production through medicinal Aromatic plants at Directorate of Medicinal and Aromatic Plant Research Boriavi, Anand, Gujarat in December, 2023

Award

Dr. Ravi Maurya	Agricultural Scientist Excellence Award, 2023 in International Conference at Chennai
Dr.Renu Pandey	

Publication

Research Papers	:	31
Book/book chapter	:	03

Infrastructure development in 2023

- Procurement of GC MS (01)
- Procurement of Inverted Microscope (01)
- Purchased Bolero Camper for HBRTC



Organized World Bee Day on 20th May, 2023



Training on Honeybee for Paramilitary force at CRPF, Kathgodam



Display of Bee products by ELP students on World Bee day



Installation of GC MS at Department

Department of Food Science & Technology



From Left to Right - Ist Row (Standing): Ms. Kanchan Bhatt, Ms. Neha Rawat, Ms. Taru Negi, Ms. Jyoti Yadav, Ms. Charu Bisht, Ms. Seema Singh, Mr. Bhavesh Tiwari, Ms. Sristi Vats, Ms. Archana Gangwar, Ms. Neha Jakhmola, Ms. Priyanshi Maheswari, Ms Deeksha Semwal, Ms. Srishti Gaur, Mr. Hanesht

IInd Row (Chair): Dr. Simran Kaur Arora, Asstt.Prof., Dr. S.K. Kashyap (Dean), Professor & Dean, College of Agri., Dr. S.K. Sharma (HOD), Prof. & Head, Dr. Anil Kumar, SRO



S.K. Sharma
Professor and Head

This department is well known for its pioneer work in the field of soybean processing and utilization. The Food Processing Centre of the department has been registered with FSSAI and is being successfully used to prepare several products by the students.

Genesis with Mission and Vision

Department of Food Science and Technology is one of the oldest departments in the country. It was carved out of Animal Science Department in 1971 as Department of Dairy Technology and was later named as Department of Food Science and Technology in 1973. Then Fruit Processing Plant located at Haldi was remodelled as Food Research Lab with various equipments. Currently, Food Processing Centre of the department has been registered with FSSAI and is being used to prepare several products by the students. It started M.Sc., Ph.D., B.Sc. (Food Technology), B.Tech. (Food Technology) programmes in the year 1975, 1983, 2006 and 2020, respectively. Ex- students of this department are occupying very senior positions in academics as well as in food industries.

Vision

Sustenance and prosperity through food science and technology.

Goal

To become a leading destination for students pursuing education and research in Food Science and Technology

Mission

To generate best scientific and technical brains in food science and technology for Academia, Industry and Government.

Mandate

Teaching, research & extension education in the area of Food Science and Technology with major emphasis on

cereals, fruits, vegetables and dairy products including their postharvest management, processing, value addition and waste utilization.

List Of Faculty Members

There are five regular and two temporary faculty members contributing in the Department of Food Science and Technology. Faculty of the department is from diversified specializations and have immense potential and experiences in various areas related to Food Processing.

Regular Faculty

Sr.	Name	Designation	Specialization
1.	Dr S.K. Sharma	Professor	Fruit and Vegetable Technology, Food Safety, Entrepreneurship Development
2.	Dr Anil Kumar	SRO	Dairy Technology
3.	Dr Simran Kaur Arora	Assistant Professor	Dairy Technology
4.	Dr Sweta Rai	Assistant Professor	Cereal, Grains Technology
5.	Dr Sabbu Sangeeta	Assistant Professor	Fruit and Vegetable Technology

Programmes and Student Enrollment

Programme	No. of on roll students
Ph.D. Food Technology	09
M.Sc. Food Technology	03
M.Tech. Food Processing Technology	03
B.Tech. Food Technology	79
Three months online certificate course in Processing of Fruits, Vegetables and Spices	Variable

Salient Achievements of The Year 2023

New Projects sanctioned in 2023

Sr.	Title	Budget Outlay (₹)	Team	Funding Agency
1.	Developing Nutrient-Enrichment Technologies and Products of Commercial Value in a Nutraceutical Food Crop, Buckwheat (<i>Fagopyrum</i> spp.)	99,70,000/-	PI-1: Dr. Satish K. Sharma, Co-PI: Dr Sweta Rai PI-2: Dr. Mohar Singh, ICAR-NBPGR RS, Shimla	DBT, Govt. of India Approved and implemented
2.	Advance Research Laboratory for Post Graduate and Ph.D. in Food Science and Technology under FIST (Level B)	Rs. 3.14 Crore	Dr SK Sharma (PI) Dr Sweta Rai (Co-PI) Dr Anil Kumar (Co-PI) Dr Sabbu Sangeeta (Co-PI)	DST(Submitted)

New Technologies Developed in 2023

With continuous enhancement of focus on research the Department could generate about seven technologies of importance to the food industry as per the details ahead.

Technology title	Inventors
1. Process for preparation of Protein enriched okara Cookies	Vinay Balodi, Sweta Rai, Anil Kumar, Sabbu Sangeeta, SK Sharma
2. Technology for Ready-to-Cook Traditional Black Soybean Dubke	Arun Prakash, Sweta Rai, SK Sharma, Anil Kumar, Sabbu Sangeeta
3. Process for Vegan Gummies Supplemented with Turmeric and Black pepper	Santoshi Rawat, Sweta Rai, SK Sharma, Anil Kumar, Sabbu Sangeeta
4. Technology for preparation of Horsegram extruded snack	Gaurav Chandola, Sabbu Sangeeta, Sweta Rai, Anil Kumar, SK Sharma
5. Technology for oil free roasted Horsegram snack	Mohd Nazim, Sabbu Sangeeta, Sweta Rai, Anil Kumar, SK Sharma
6. Technology for preparation of effervescent tamarind beverage tablet.	Shivani Bisht, Sabbu Sangeeta, Sweta Rai, Anil Kumar, SK Sharma
7. Process standardization for the development of functional bottle gourd shrikhand	Yash Mali, Simran Kaur Arora
8. Process standardization for the development of functional bottle gourd juice-based whey beverage	Yash Mali, Simran Kaur Arora

Publications

The faculty and students of Department of Food Science and Technology published many research papers, many chapters and other articles were also published.

Research Papers: 09

Book Chapters/Articles: 10

Training/Workshop/Symposium: 15

Foreign Visit/ Training

- **Dr. Sweta Rai, Assistant Professor**, successfully completed three months foreign training during 05/12/2022-08/03/2023 under IDP-NAHEP, Pantnagarat Biological Systems Engineering Department, Washington State University, Pullman, USA
- **Dr. Anil Kumar, SRO**, successfully completed one-month foreign training during 23-02-2023 to 24-03-2023 under IDP-NAHEP, Pantnagarat Dept. of Nutrition, Dietetics and Food Science at Utah State University, USA.
- **Dr. Simran Kaur Arora, Assistant Professor**, visited to the University of Melbourne (Melbourne, Australia) for one month under International Faculty Exchange Program of IDP-NAHEP (Pantnagar) funded by ICAR (New Delhi) and World Bank (from 1.10.2023 to 31.10.2023).
- **Ms. Charu Bisht and Ms. Riya Joshi** successfully completed one-month Training (March 9th 2023 to 6th April 2023) in food processing in Professional and Vocational Institution of Aurillac – Lycée G. Pompidou, France under the DEFIAA Program in collaboration with French Ministry for agriculture and Food Sovereignty, 2023
- **Ms. Vaishali Shree, Mr. Anuj Gupta, Mr. Anubhav Bhandari, Ms. Ritika Pandey** International exposure visit under IDP-NAHEP, Pantnagar.

Number of patents (Filed) with details

Sr.	Title	Investigator
01.	Process for reduced splitting and butterflying in ready to cook kidney beans by application of edible coating	Dr. Anil Kumar, Ms. Riya Mehra, Dr. Sweta Rai, Dr. Ashok Kumar Verma, Dr. Satish Kumar Sharma, is filed

Special Recognition in 2023

- **Dr. SK Sharma, Professor**, Member – FSSAI Scientific Panel on Fruits, Vegetables and Their Products, Food Safety and Standards Authority of India
- **Dr. SK Sharma, Professor**, Member – Bureau of India Standards Sectional Committee FAD 10, Bureau of India Standards, India
- **Dr. Anil Kumar, SRO**, invited as an expert to review “Research Proposals” by BIRAC BIG proposals.
- **Dr. Anil Kumar, SRO**, Technical Member – BIS-

Sectional Committee, FAD 28, Bureau of India Standards, India

- **Dr. Anil Kumar, SRO**, reviewed many research papers in Indian Journal of Dairy Sciences and Journal Of Food Science & Technology.
- **Dr. Sweta Rai, Assistant Professor**, Technical Member – BIS-Sectional Committee, FAD 16, Bureau of India Standards, India
- **Dr. Sweta Rai, Assistant Professor**, Got **Excellence of Research Award** for outstanding contribution in the field of Food Science and Technology
- **Dr. Sabbu Sangeeta, Assistant Professor**, Got **Excellence of Teaching Award** for outstanding contribution in the field of Food Science and Technology
- **Faculty Excellence Award: Dr. Satish Kumar**

Sharma, Dr. Anil Kumar, Dr. Sweta Rai and Dr. Sabbu Sangeeta were awarded with Faculty Excellence Award-2022 from College of Agriculture.

- **Dr. S.K Arora**, received Letter of Appreciation (2023) for Excellent Scientific Work both from J. Rettenmaier&Sohne, Germany and J. Rettenmaier India Pvt. Ltd.
- **Dr. S.K Arora**, received Elsevier Reviewer Recognition LWT 2019-2023 from The Editors of LWT and Received Elsevier Reviewer Recognition JFCA 2021-2023 from The Editors of Journal of Food Composition and Analysis.
- **Dr. S.K Arora**, received Best Oral Paper Presentation in Technical session VI (Post-Harvest, Value addition and Waste Management) during Progressive Horticulture Conclave (PHC 2023) organized by Pantnagar University along with ISHRD Feb 3-5, 2023.

Total No. of Awards / Fellowships Won by Students in 2021

Type of award	No of students receiving awards	Awarding institution
Cultural events	01	At University level, GBPUAT
Drawing competition	01	At University level, GBPUAT
Sports activity	05	At University level, GBPUAT

Events / Activities Organized in 2023

The Department successfully organized two Webinars, One National Workshop during 2020 as per following details:

Event	Topic	Dates	No. of Participants	Organizers
World Food Day-2023 celebrated in the Department on 16 th Oct 2023	Water is life, water is food, leave no one behind	16-10-2023	79	Society of Food Scientists & Technologists, Dept. of Food Science & Technology, Pantnagar
Lecture delivered by Dr.Nagendra Kumar Yadav to UG students in the department	Marketing Management Practices in Changing Global Scenario for Entrepreneurs	01-12-2023	35	Society of Food Scientists & Technologists, Dept. of Food Science & Technology, Pantnagar
A Training for UG/PG students of the department funded by IDP, NAHEP was organized	Industrial Trends in Food Quality Evaluation, Safety and Professional Skills Development	14-19 th Oct 2023	50	Dept. of Food Science & Technology
An educational/industrial visit of UG students was conducted to Utkarsh Foods Pvt Ltd, Gularbhoj, US Nagar, Uttarakhand	---	18-10-2023	35	Dept. of Food Science & Technology

Glimpses of some activities



Food Tech. Experts Who Visited the Dept.



Food Tech. Students Having Hands-on-Training on Equipment Handling



Food Tech. Expert Addressing Students



Felicitating Experts from Industry and Academia Visited the Dept.



Awards Distribution to Students for Quiz Competition and Other Activities

Department of Genetics and Plant Breeding



Left to Right - Ist Row (Standing): Mr. Shubhyam Semwal, Mr. Manish Mehra, Mr. Anukul Singh, Ms. Shivangi Verma, Ms. Garima Aggarwal, Mr. Ashish Bhatt, Mr. Senthil Kumar V., Ms. Kumari Pragati, Ms. Priya Garkoti, Mr. Bishawajit Kumar, Mr. Thotla Naresh, Ms. Namata Kumari, Mr. Balram, Ms. Priyanka Parihar, Ms. Shivangi Kaptiyal, Ms. Shalini Uniyal.

IInd Row (Chair): Dr. Anju Arora, Dr. N.K. Singh, Dr. A.S. Jeena, Dr. Indra Deo, Dr. S.K. Kashyap (Dean), Dr. J.P. Jaiswal (HOD), Dr. P.K. Pandey, Dr. Swati, Dr. Usha Pant.



Dr J. P. Jaiswal
Professor & Head

'Pantnagar Seeds' the most popular brand among the farmers of the country is the result of the breeding programme of the department. Thirteen crop varieties released by the department have been ranked as 'Land-Mark Varieties' at the country level.

Genesis with Mission and Vision

The Department of Plant Breeding was established in the year 1960 with the inception of the University. It aims at imparting teaching, research and extension in plant breeding. The Department of Plant Breeding was renamed as Department of Genetics and Plant Breeding in 1976. The department has played a pivotal role in ushering the Green Revolution in India by developing landmark varieties of wheat, rice, maize, pulses, oilseeds, forage, sugarcane and other crops. Till the year 2023, 275 varieties have been developed and commercially released in various crops. Thirteen crop varieties have been ranked as "Land-Mark Varieties" at the country level. Department facilitated registration of 4 farmers Varieties with the PPV&FRA. One of the most outstanding impacts of the breeding programme has been the massive seed production of various crops and "**Pantnagar Seeds**" is the most popular brand among the farmers across the country.

The Department has well-knit under graduate (U.G.) and post graduate (P.G.) programmes with updated and modern course curricula as per the ICAR guidelines. A broad range of carefully designed courses complimented by lectures in other departments appropriately

address the academic needs of the students. The Department has excellent facilities for teaching various courses in Genetics and Plant Breeding, Biotechnology and Seed Technology as required for undergraduate and post-graduate degree programmes. Department has been graced by distinguished faculty, four faculty members have been honored with NAAS Fellowship. Excellent facilities for the thesis and research to students are available in the major crops. There are 12 well-equipped laboratories in the department for teaching and research work. Currently in addition to 12 All India Coordinated Research Projects (ACRIP) on different crops funded by ICAR and 06 *ad-hoc* projects funded by different funding agencies viz., DBT, DST, ICAR, BIRAC, NBPGR, DAC/PPV&FRA, CGIAR, USAID, NOVOD etc. are under implementation. Efforts are on the way to meet Sustainable Development Goals (SDGs) 2030 of the United Nations pertaining to food and nutritional security.

Vision

To impart quality education in the field of Genetics & Plant Breeding to UG and PG students and to develop high yielding crop varieties with biotic, abiotic stress resistance, climate resilient and high quality.

Mission

- To impart quality teaching in Genetics and Plant Breeding related subjects in UG and PG levels.
- To guide quality research to M.Sc. and Ph.D. students in the field of Genetics & Plant Breeding.
- To collect, evaluate, maintain and characterize the genetic resources of field crops
- To evolve superior varieties / hybrids of different crops with high yield, quality, biotic and abiotic stresses using classical and molecular tools

- To ensure quality seed production of seed chain of notified varieties.
- To impart capacity building to the students and farmers through trainings and guidance.

Mandate

Teaching

- To run postgraduate programme (M. Sc. Ag. and Ph.D.) in the field of Genetics & Plant Breeding.
- To contribute actively in the under-graduate programme (B. Sc. Ag) of the college.

Research

- To develop high yielding biotic (disease and pest) and abiotic (heat and drought) stress resistance/ tolerance, and high product value having varieties of cereals, oilseeds, pulses, millets, forage and sugarcane crops with the integration of classical and molecular breeding approaches.
- To evaluate, catalogue, preserve and protect the germplasm of different crop plants.
- To conduct high quality research with the integration of cutting edge technologies like genomics and bioinformatics.

Extension

- To demonstrate the impact of Improved Varieties and Technologies over Farmer's Practices through organizing "Front Line Demonstrations" in all the crops to popularize the new and improved crop varieties.
- To organize the awareness-cum-Training Programmes for farmers in the field of Seed Production, Plant Variety Protection and Intellectual Property Rights.

Faculty of the Department

S. N	Name	Designation	Theme/Area of Expertise
1.	Dr. J.P. Jaiswal	Professor & Head	Genetics & Plant Breeding, Wheat Breeding, Plant Biotechnology
2.	Dr. Salil.K. Tewari	Professor	Tree Genetics & Improvement
3.	Dr Ravindra Kumar	Professor	Genetics & Plant Breeding, Pulse Breeding
4.	Dr. Indra Deo	Professor	Rice Breeding , Plant Biotechnology and Molecular Genetics
5.	Dr. S.K. Verma	Professor	Resistance Breeding, Pigeon pea Breeding
6.	Dr. P.S. Shukla (on Leave)	Professor	Seed Science & Technology
7.	Dr. A.S. Jeena	Professor	Sugarcane Breeding, Genetics & Plant Breeding,
8.	Dr M.K. Nautiyal	Professor	Seed Technology

9.	Dr. N.K. Singh	Professor	Genetics and Plant Breeding, Maize Breeding, Plant Biotechnology
10.	Dr. Birendra Prasad	Professor	Forage Breeding and Seed Science & Technology
11.	Dr. P.K. Pandey	Professor	Minor Millets Breeding, Molecular Biology & Biotechnology
12.	Dr. M.K. Karanwal	Professor	Genetics and Plant Breeding, Soybean Breeding
13.	Dr. Swati	Professor	Genetics & Plant Breeding & Wheat and Barley Breeding
14.	Dr. Anil Kumar	Professor	Genetics & Plant Breeding & Wheat Quality Breeding
15.	Dr. Usha Pant	S.R.O.	Genetics & Plant Breeding & Rapeseed Mustard Breeding

Research Project

i. Coordinated Projects

S.N.	Title	Funding Agency	P.I. / Co-PI
1.	AICRP on Wheat & Barley Improvement	ICAR	Dr. J.P. Jaiswal, Dr. Swati Dr. Anil Kumar
2.	AICRP on Rice Improvement	ICAR	Dr. I.D. Pandey
3.	AICRP on Maize Improvement	ICAR	Dr. N.K. Singh
4.	AICRP on Pigeonpea Improvement	ICAR	Dr. S.K. Verma
5.	AICRP on MULLaRP Improvement	ICAR	Dr. S.K. Verma
6.	AICRP on Chickpea Improvement	ICAR	Dr. Anju Arora
7.	AICRP on Rapeseed-Mustard Improvement	ICAR	Dr. Usha Pant
8.	AICRP on Soybean Improvement	ICAR	Dr. M.K. Karnwal
9.	AICRP on Sorghum Improvement	ICAR	Dr. P.K. Pandey
10.	AICRP on Forage Crops and Utilization	ICAR	Dr. Birendra Prasad
11.	AICRP on Sugarcane Improvement	ICAR	Dr. A.S. Jeena
12.	AICRP on Seed Technology	ICAR	Dr. M.K. Karnwal

(ii) Ongoing Ad-hoc research projects

Sl. No.	Name of the project	Period	Funding agency	Amount (Rs. in lakhs)
Ad-hoc projects				
1.	Genetic Dissection of Heat Tolerance in Wheat Using Multiple Bi-parental RIL Mapping Populations- P.I.: Dr. J.P. Jaiswal, Co-PI: Dr. Swati	2002-25	BIRAC/ USAID	79.0
2.	Diversification and development of maize through domestication of wild alleles from teosinte. P.I.: Dr. N.K. Singh	2023-26	Uttarakhand Council of Biotechnology, Haldi	12.0
3.	Characterization of chickpea germplasm resource to accelerate genomics assisted crop improvement. P.I.: Dr. Anju Arora	2021-26	DBT, GoI	~50.0
4.	Development of short duration Cowpea variety to enhance the Nutritional status of hill Agriculture funded by Uttarakhand Council of Biotechnology, Haldi	2022-24	Uttarakhand Council of Biotechnology, Haldi	10.0
5.	Hybrid rice to improve the economy of hill agriculture funded by Uttarakhand Council of Biotechnology, Haldi	2018-25	Uttarakhand Council of Biotechnology, Haldi	26.1

6.	Develop premier quality basmati varieties with high scent funded by Uttarakhand Council of Biotechnology, Haldi	2022-24	Uttarakhand Council of Biotechnology, Haldi	23.92
Bioefficacy project				
7.	Evaluation of Biovita X (L) for growth and yield parameter of wheat P.I.: Dr. J.P. Jaiswal Co-PI: Dr. Anil Kumar	2023	M/s PI Industries Ltd., Gurgaon, Haryana	4.21
8.	Evaluation of crop safety of Quantis in Sugarcane through drone application. P.I.: Dr. A.S. Jeena	2023		4.41
9.	Bio-efficacy of Seed 100 CL on Wheat Crop (Code 2404) PI: Dr. Anil Kumar	2023		3.79
10.	Efficacy of Thiamethoxam 30%FS as seed treatment against early crop stage insect pest in mustard. P.I.: Dr. Usha	2023-24	M/s Syngenta Indian Pvt Ltd	8.0
11.	Efficacy of pollinus on performance of honey bees as crop pollinators of mustard under field condition. P.I.: Dr. Usha	2023	UPL Limited, Mumbai, Maharashtra	3.79

Academic Programmes & Seats

Sl. No.	Degree	No. of seats		Payment seat	Total	
		Uttarakhand domicile	ICAR		Other state	
1.	M.Sc. Ag	12	4	03	-	19
2.	Ph.D.	06	02	03	02	13

Salient Achievements

- All the Crop Breeders were honoured by the Hon'ble Governor of Uttarakhand on Oct 13, 2023 during the inaugural ceremony of 114th Kisan Mela & Agro-industrial Exhibition of G.B. Pant University of Agriculture & Technology, Pantnagar for their significant contributions in the development and release of varieties suited to different agro-climatic conditions.
- Number of technologies commercialized with details:
Two varieties of maize
- 1. Pant Composite Makka 4
- 2. Pant Hybrid Forage Maize 1 (DFH-2)
- Co-organizer in organizing the 66th Annual Maize Workshop at Pantnagar from 12-14 April 2023
- Publications in 2023**
 - Research Papers: 45
 - Books: 2
 - Book Chapters: 6
- Varieties Released / Notified in 2023**

Crop	Variety Released & Notified	Scientist (s) involved
Rice	Pant Sugandh Dhan 27	Dr. ID pandey and team
Soybean	Pant Soybean 27	Dr. M.K. Karnwal and team
Mustard and Rai	Pant Pili Sarson-2 and Pant Rai-22 notified	Dr. Usha Pant
Gram	Pant Gram 10	Dr. R.K. Panwar, Dr. S.K. Verma, Dr. Anju Arora
Field Pea	Pant Pea 484, Pant Pea 497, Pant Pea 498, Pant Pea 501	Dr. R.K. Panwar, Dr. S.K. Verma, Dr. Anju Arora

Lentil	Pant Lentil 12, Pant Lentil 14, Pant Lentil 15	Dr. R.K. Panwar, Dr. S.K. Verma, Dr. Anju Arora
Maize	Forage hybrid Maize variety DFH-2	Dr. N.K. Singh, Dr. Birendra Prasad
Sorghum	Pant Chari 12, Pant Chari 13, Pant Chari 14, Pant Chari 15 notified. CSV56F and CSV57F identified by CVRC for release.	Dr. P.K. Pandey

• Germplasm Registered in 2023

- Soybean- PSi670 (2023): New Soybean genotype registered for high yield and YMV resistant in NBPGR, New Delhi (IC No. IC6 48345).
- Oat-UPO 16-4 (2023): New Forage Oat genotype registered for high yield in NBPGR, New Delhi (IC No. IC650325)

Achievements by the Faculty

S.No.	Name of Faculty	Fellow / Award / details	Agency
1.	Dr. J.P. Jaiswal	Member, PRT, JKK Muniraj College of Agriculture, TNAU, Coimbatore	ICAR
2.	Dr. J.P. Jaiswal	Member, PRT, LPU, Jalandhar	ICAR
3.	Dr. J.P. Jaiswal	External Expert, University Academic Committee (1.5.2023-30.4.2026)	Kumaun University, Nainital
4.	Dr. J.P. Jaiswal	Organizing Secretary, Training cum Awareness programme on PPVFR Act 2001, July 25, 2023	PPVFRA, GoI, New Delhi & GBPUAT, Pantnagar
5.	Dr. N.K. Singh	Member, PRT, Imayam Inst. of Agriculture & Technology, Trichi, TNAU, Coimbatore	ICAR
6.	Dr. N.K. Singh	Member expert in Institutional Research Council of ICAR-IIMR, Ludhiana.	ICAR
7.	Dr. R.K. Panwar, Dr. S.K. Verma, Dr. Anju Arora	Certificate of Appreciation was awarded by Director, IIPR, Kanpur for the development of superior high yielding variety of fieldpea viz. Pant Pea 462.	ICAR-IIPR, Kanpur
8.	Dr. M.K. Karnwal	Received Certificate for Technology Development entitled "Standardization of Isolation Distance for Hybrid Seed Production in Pigeon Pea" from ICAR- Indian Institute of Seed science on the occasion of 37th Annual Group Meeting of AICRP on Seed (Crops) on May 06, 2023.	ICAR-IISS, Mau
9.	Dr. Swati	Participated in 10 days International Training on Wheat Blast: Germplasm Screening and Disease Surveillance held at Regional Station, BWMRI, Jashore, Bangladesh in 2023.	Bangladesh Wheat and Maize Research Institute (BWMRI) and the International Maize and Wheat Improvement Center (CIMMYT), Mexico.
10.	Dr. Anil Kumar	Visiting Scientist to CIMMYT, Mexico for 4 and half months training programme	CIMMYT, Mexico

Other remarkable developments / Achievements by the students

S.No.	Name	Details
1.	Mr. Amit Kumar	Best oral presentation award National Symposium on "Crop Health Management: Safeguarding Crop through Diagnostics and Innovations" held on September 29-30, 2023 at ICAR-VPKAS, Almora.
2.	Ms. Tushandri Singh	Best oral presentation award for the paper entitled in the International Conf. on Strategies for Global Food and Nutritional Security, Sustainability and Wellness (NUTRI-2023) held at CCS HAU, Hisar Dec 4-6, 2023.
3.	Ms. Priya Garkoti	Secured first position in poster presentation in International Conference held at University of Agriculture Sciences, GKV, Bangalore.

Faculty participation in Conference/Symposium/Workshop: 08

Research Papers published in the journal with NAAS rating >6.0: 17



Fig. Pant Hybrid Forage Maize 1 (DFH-2)- the first inter-subspecies maize hybrids



Presentation of Model at Kisan Mela

Department of Horticulture



Left to Right - Ist Row (Standing): Mr. Rishabh Raj, Mr. Ganesh Chandra Arya, Mr. Vaibhav Bahukhandi, Mr. Karan Pradeep, Mr. Nischai Joshi

IInd Row (Standing) : Mr. Hemant Sharma, Mr. Kuldeep, Mr. Ayush Sah, Ms. Sandhya Rawat, Ms. Raveena Rana, Ms. Kirti Chhetri, Mr. Saurabh Chandra Tamta, Ms. Arundhati Semwal, Ms. Mini Tamta, Ms. Priyanka Mehra, Ms. Saujanya Rawat, Ms. Jaspreet Kaur, Mr. Gopal Mani, Mr. K.S. Tomar, Dr. Navin Singh, Mr. Mohit Chand, Mr. Abhay Pandey

IIIrd Row (Chair): Dr. Shweta Uniyal, Dr. Omveer Singh, Dr. Satish Chand, Dr. V.K Rao (HOD), Dr. S.K Kashyap (Dean), Dr. Ranjan Srivastava, Dr. Rajesh Kumar, Dr. Ajit Kumar Kapoor, Dr. Anju Pal

IVth Row (Sitting): Ms. Pallavi Bharti, Ms. Divya Laxmi, Ms. Dolly Rautela, Ms. Preeti Bisht, Ms. Riddhi Bisht, Ms. Neha Bisht, Ms. Suman Maurya, Ms. Rajshree, Ms. Anu Deorari, Ms. Ritika Nabiyal, Ms. Harshita Bora



Dr V K Rao
Professor & Head

The department is credited with development of 22 varieties in fruits and one in flower crops, development of improved horticultural technologies like high density orcharding, standardization of micro propagation protocols in many horticultural crops and so on and so forth.

Genesis with Mission and Vision

Department of Horticulture came into existence in 1961 and M. Sc. Ag. in Horticulture programme was initiated in 1963. The Department of Horticulture is instrumental in imparting teaching, research and extension services since 1963-64 in different aspects of horticulture. Ph.D. programme in Horticulture was initiated in the year 1976, while P. G. programme in Floriculture and Landscaping have been started from the academic year 2000-01.

Vision

To provide foundation for knowledge led, technology driven, intellectually satisfying and economically rewarding horticulture enterprise, for ensuring livelihood security and improved quality of human life.

Mission

Strong Human resource development through updated teaching, research and training in the field of horticulture.

Mandate

Teaching, Research & Extension education in the area of Horticulture with major emphasis on fruits and flowers

including their postharvest management, processing, value addition and waste utilization.

Faculty Members

Sl. No.	Name of Faculty	Designation	Specialization
1	Dr. V.K. Rao	Professor & Head	Horticulture (Floriculture & Pomology)
2	Dr. D.C. Dimri	Professor.	Fruits (Temperate Fruits)
3	Dr. P.N. Rai	Professor	Production Technology of Fruits
4	Dr. B.D. Bhuj	Professor	Floriculture & Landscaping
5	Dr. Ranjan Srivastava	Professor	Floriculture and Tissue Culture
6	Dr. A.K. Singh	Professor	Fruits (Production & Growth Regulation)
7	Dr. Omveer Singh	Professor	Fruits (Post Harvest Technology)
8	Dr. V.P. Singh	Professor	Precision Horticulture
9	Dr. Ratna Rai	Professor	Fruits (Nursery Production & Tissue culture)
10	Dr. Ajit Kumar	Professor Floriculture (Hort.)	Floriculture & Landscaping
11	Dr. Satish Chand	Professor	Fruits & Floriculture
12	Dr. Rajesh Kumar	Professor	Fruits (Tissue culture & Canopy management)
13	Dr. Navin Singh	S. R. O.	Fruits (Production Technology)
14	Dr. Pratibha	Assistant Professor	Fruits (Production Technology)
15	Dr. Shweta Uniyal	Assistant Professor	Low-chill Temperate Fruits
16	Dr. Anju Pal	Assistant Professor	Floriculture, Medicinal Plant and Biotechnology
17	Dr. Rashmi Panwar	Assistant Professor	Fruits (Production Technology)

Research Projects

Name of the Project	Funding agency	P.I. & Co PI
AICRP on Floriculture	ICAR, New Delhi	Dr. Ajit Kumar (P.I.) Dr. V. K. Rao, Dr. B. D. Bhuj and Dr. Ranjan Srivastava (Co PIs)
AICRP on Fruits (Mango, Litchi and Guava)	ICAR, New Delhi	Dr. A. K. Singh (P.I.) Dr. Poonam Srivastava, Dr. Satish Chand, Dr. Rajesh Kumar, Dr. Pratibha and Dr. Rashmi Panwar (Co PIs)
AICRP on Agroforestry	ICAR	Dr Ashutosh Dubey (P.I.) & Dr Ratna Rai (Co PI)
Evaluation of population of guava hybrids	Uttarakhand Council of Biotechnology	Dr. Rajesh Kumar (P.I.)
Collection and establishment of budwood bank of low chill temperate fruits viz., Peach, Plum and Pear	HMNEH, Uttarakhand	Dr. D. C. Dimri (P.I.) & Dr. Shweta Uniyal (Co PI)
Precision Farming Development Centre	Ministry of Agriculture and Farmers' Welfare	Dr. V. P. Singh (P.I.)
Export standards, Guidelines and Promotion for Natural Agriculture Products	APEDA, Min of Commerce and Industry, New Delhi	Dr. Ranjan Srivastava

Programs Running in the Department

S. No.	Name of Degree	Students intake (Uttarakhand Domicile)	Students intake (ICAR)	Payment seat	Other state	Total
1.	M.Sc. Ag. Horticulture (Fruit Science)	08	02	02		12
2.	M.Sc. Ag. Horticulture (Floriculture & Landscaping)	04	01	01		06
3.	Ph.D. Horticulture (Fruit Science)	04	01	02	01	08
4.	Ph.D. Horticulture (Floriculture & Landscaping)	03	01	01	01	06

Salient Achievements including student achievements in 2023

a. Publications

S. No.	Particulars	Number of Publications
1.	Research Paper	23
2.	Popular Articles	04
4.	Book Chapter	02
5.	TV talks/Radio talks	14

Foreign visits

- Dr. Ranjan Srivastava, Professor Horticulture visited University of Georgia, Athens and University of Illinois, Urbana-Champaign under IDP-NAHEP Faculty Development Programme for Administrative Training on February 06-18, 2023
- Dr. A. K. Singh, Professor Horticulture visited Moscow and OMSK Region in Russia to explore the possibilities for collaboration in Agriculture Research between the Republic of India and the Russian Federation w.e.f. 24 July, 2023 to 28 July, 2023.
- Dr. Ratna Rai visited Western Sydney University, Australia w.e.f. 18 July, 2023 to 20 August, 2023, under Faculty Development Programme of IDP- NAHEP, Pantnagar.
- Dr. Ajit Kumar, Professor Horticulture visited Hawkesbury Institute for the Environment, Western Sydney University, Australia under International Faculty Exchange Programme of IDP, NAHEP Pantnagar w.e.f. 24.09.2023 to 23.10.2023
- Dr. Pratibha, Asstt. Professor Horticulture visited Australian Rivers Institute, Griffith University, Nathan Campus on 22 July, 2023 to 22 August, 2023, under Faculty Development Programme of IDP-NAHEP, Pantnagar.

National award, fellowship/membership earned by the faculty members in 2023

Name	Achievement
Dr. B. D. Bhuj	ICAFS 2023 - Best Scientist Award Best Poster Presentation Award in Progressive Horticulture Conclave (PHC 2023)
Dr. Satish Chand	Teaching Excellence Award 2023 24 January 2023 by I2oR
Dr. Ranjan Srivastava	Member of Editorial Board of Progressive Horticulture
Dr. V. P. Singh	Member of Editorial Board of Progressive Research Member of Board of Studies, Hemwati Nandan Bahuguna Garhwal (Central) University, Srinagar Garhwal, Uttarakhand and Board of Studies, Uttarakhand Open University, Haldwani, Nainital, Uttarakhand

Students' achievements

Name	Id No	Award
Dr. Reena Prusty	51065	ARS in Horticulture
Mr. Shubham Jagga	48434	Budding Scientist Award for his M.Sc. thesis research
Mr. G. Anand Reddy	58440	Horticulture Officer in Zone- III, at Department of Horticulture
Dr. Sheeba Belwal	44440	Technical Officer (Horticulture), Indian Sub-continent Commonwealth War Graves Commission.
Dr. Ashok Choudhary	54154	Selected as Asstt. Professor (Horticulture
Mr. Nikesh Chandra	57043	Received best poster presentation award
Ms. Rakhi Gautam	48444	Best poster presentation award in National Conference (02)

Infrastructure Development in 2023

Renovation and extension of Postharvest Laboratory

Remarkable Activities / Contribution by the Department

- Department of Horticulture organized Progressive Horticulture Conclave on Transforming Horticulture: Science into Technology on February 3-5, 2023.
- A three days practical training program for students was conducted by Department of Horticulture under IDP-NAHEP on 17 to 19 October, 2023.



Progressive Horticulture Conclave on February 3-5, 2023



Hon'ble Vice Chancellor visit At HRC, Patharchatta



Practical training program on Commercial Horticulture



Russian Delegates visit at HRC, Patharchatta

Department of Plant Pathology



Left to Right - Ist Row (Standing): Mr. Rahul Purohit, Mr. Sarthak Joshi, Ms. Sweta Kala, Ms. Shivangi Bhatt, Ms. Riti Pal, Ms. Akanksha Singh, Ms. Aditi Maithani, Ms. Ayushi, Ms. Rashika Tamta, Ms. Raveena Krithwan, Mr. Ashish Bisht, Mr. Chidananda, Mr. Arun Patelkar, Mr. Ajay Kumar, Mr. Arun Singh Rathore

IInd Row (Chair): Dr. Roopali Sharma, Dr. Shailbala Sharma, Dr. Deepshikha, Dr. Geeta Sharma, Dr. Yogendra Singh (HOD), Dr. S.K. Kashyap (Dean), Dr. Satya Kumar, Dr. L.B. Yadav, Dr. K.P.S. Kushwaha, Dr. Shilpi Rawat

IIInd Row (Sitting): Ms. Pooja Bisht, Ms. Sonam Bhatt, Ms. Vidya Dev, Ms. Archana Kushwaha, Ms. Surbhi, Ms. Pranjali Pandey, Ms. Sonali Mehra



Dr. Yogendra Singh
Professor & Head

Eminent and Internationally renowned Plant Pathologists like Dr. Y.L.Nene, Dr. A.N. Mukhopadhyay, Dr. R.S. Singh etc. have served as the faculty into the Department of Plant Pathology and have led the department to achieve excellence in teaching, research and extension.

Genesis with Mission and Vision

The Department of Plant Pathology was created and accredited by the ICAR in 1961. The postgraduate degree programme leading to M.Sc. (Ag.) Plant Pathology and Ph.D. Plant Pathology were started in 1963 and 1965, respectively. Department stupendously progressed under the able guidance of Drs. Y.L. Nene, first Head of the Department, and R.S. Singh. Department was further expanded by many dedicated faculty members who lead the department as recognized leader in the country.

In view of the outstanding contribution made in the area of teaching, research and extension by the department, ICAR upgraded the department in the year 1995 to the status of Centre of Advanced Studies in Plant Pathology and subsequently as Centre of Advanced Faculty Training (CAFT) in the year 2009-10. Major mandate of the CAFT is to train scientific faculty from all over the country in important and innovative areas of Plant Pathology.

Vision

Attain excellence in teaching and research in Plant Pathology and render services to the farming community.

Mission

- Impart quality education and training in the field of Plant Pathology for teachers and faculty from other universities and institutions; farmers and clients from govt. and non govt. organizations
- Understand intricacies of plant, pathogen and environment interactions to open up newer possibilities for disease management
- Generate eco-friendly and cost-effective technologies and strategies for sustainable management of plant diseases
- Offer assistance in the dissemination of technology to the end users.
- Offer consultancy support to promote entrepreneurship

Mandate

- To impart quality education to UG and PG students and training skill programmes offline/online mode in Mass production of Bio-agents, improved cultivation technologies of Mushroom and detection, diagnosis and management of plant diseases.
- To conduct research on host pathogen interactions, epidemiology, plant disease diagnosis, microbial ecology, pathogen population biology, biological control, IPM, biodiversity, induced resistance, eco-friendly chemicals, cost effective eco-friendly sustainable disease management strategies on important crop diseases in general and for organic farming, mushrooms cultivation technologies and their value-added products
- To organize trainings on recent developments and cutting-edge technologies for plant disease diagnosis and management.
- To collaborate with National and International agencies to upgrade skills of faculty and students in research and teaching

Faculty members in the department

Sl. No.	Name of Faculty	Designation	Specialization
1	Dr. Yogendra Singh	Prof. & Head	Sorghum & Forest Pathology
2	Dr. Pradeep Kumar	Professor	Soybean, Maize & Fruit Pathology
3	Dr. K. P. Singh	Professor	Plant Disease Epidemiology & Forecasting
4	Dr. R.P.Singh	Professor	Maize & Vegetable Pathology
5	Dr. K.P.S. Kushwaha	Professor	Pulse Pathology, Mycology & Mushroom
6	Dr. A.K. Tewari	Professor	Oilseeds Pathology & Biological control
7	Dr.Satya Kumar	Professor	Nematology
8	Dr. L.B. Yadav	Professor	Mycology & Pulse (Chickpea) Pathology
9	Dr.Roopali Sharma	Professor	Biocontrol
10	Dr. Bijendra Kumar	Professor	Small Millets & Rice Pathology
11	Dr. S.K. Mishra	Professor	Mushroom Production
12	Dr.Shailbala	Professor	Potato Pathology
13	Dr. Geeta Sharma	Senior Research Officer	Surgarcane Pathology & Mushroom Production
14	Dr. Deepshikha	Senior Research Officer	Wheat Pathology
15	Dr. RashmiTewari	Assistant Professor	Seed Pathology/Seed Health Technology
16	Dr. ShilpiRawat	Assistant Professor	Plant Nematology & Mushroom

Research projects with the name of funding agency

A. AICRP Projects

Sl. No.	Project Name	Project Leader
1.	AICRP on Biological Control	Dr. Roopali Sharma
2.	AICRP on Rice	Dr. Bijendra Kumar
3.	AICRP on Seed (Crops)	Dr. Rashmi Tewari
4.	AICRP on Soybean	Dr. K.P. Singh/ Dr. Shilpi Rawat
5.	AICRP on Maize	Dr. R.P. Singh/ Dr. Yogendra Singh
6.	AICRP on Sugarcane	Dr. Geeta Sharma
7.	AICRP on Sorghum	Dr. Yogendra Singh
8.	AICRP on Potato	Dr. Shailbala Sharma
9.	AICRP on Rapeseed & Mustard	Dr. A.K. Tewari
10.	AICRP on Chickpea	Dr. L.B. Yadav
11.	AICRP on Pigeon pea	Dr. K.P.S. Kushwaha
12.	AICRP on MullaRP	Dr. K.P.S. Kushwaha
13.	AICRP on Mushroom	Dr. S.K. Mishra
14.	AICRP on Wheat and Barley	Dr. Deepshikha
15.	AICRP on Nematodes	Dr. Satya Kumar

B. Adhoc Projects

Sl. No.	Project Name	PI/Co-PI
1	Collaborative project entitled "DBT-UDSC Partnership Centre on Genetic Manipulation of Brassicas-Phase-II [44569]" funded by DBT	PI-Dr. A. K. Tewari,
2	Training demonstration and value addition on mushroom cultivation for livelihood development of ST people of Nainital District, Uttarakhand funded by ICAR	PI- Dr. S.K. Mishra
3	Characterization of Chickpea Germplasm Resource to Accelerate Genomics-assisted Crop Improvement under mission programme of Characterization of Genetic Resource funded by DBT	Co-PI- Dr. L.B. Yadav
4	Dissemination of Production Technology of Mushroom and Spawn among Farmers of selected village of Gadarpur (U.S. Nagar) Uttarakhand funded by Uttarakhand Council of Biotech.	PI- Dr. K.P.S. Kushwaha Co-PI- Dr. Shilpi Rawat
5	Dissemination of Production Technology of Mushroom among Farmers of selected villages of Bhimtal block near Patwadangar, Distt. Nainital, Uttarakhand funded by Uttarakhand Council of Biotech.	PI- Dr. K.P.S. Kushwaha Co-PI- Dr. Shilpi Rawat

Programmes running in the department with number of seats

Sl. No.	Program	UK Domicile	ICAR	Payment seat	Other state	Total
1.	M.Sc.(Ag.)Plant Pathology	06	06	01	-	13
2.	Ph.D. Plant Pathology	04	04	-	-	08

Salient achievements

Screened germplasms/varieties of various crops for disease resistance.

Tebuconazole 50% + Trifloxystrobin 25% @ 0.06% is recommended for management of Leaf Rust of Wheat

and Leaf Blight disease of Barley with better yield.

Trichoderma isolates, isolated from sclerotia buried into the rhizosphere of mustard, only two Trichoderma isolates viz. PBTMSR4 and PBTMSR8 were found most effective against Sclerotinia rot pathogen (*Sclerotinia*

sclerotiorum) and were confirmed as *Trichoderma afroharzianum* and *Trichoderma lixii*.

Fluopyram 17.7% + Tebuconazole 17.7% @1.0% was found superior for the management of *Alternaria* blight of mustard.

A petal infestation technique in rapeseed mustard for ascospores germination of *Sclerotinia sclerotiorum* has been standardized. This technique could be exploited for the forecasting of the disease. Based on petal infestation technique a foliar spray schedule of effective fungicide has been developed. The first application at 30% bloom stage (70 DAS) and second at 50% bloom stage of the crop (85 DAS) should be given for the cost-effective management of *Sclerotinia* rot disease in rapeseed-mustard.

In Rice crop, BIPM practices resulted in the reduction of the Sheath Blight disease upto 51.69% and Brown spot disease upto 44.04%.

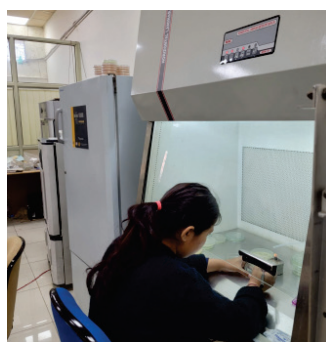
Isolated and characterized 30 new isolates of *Trichoderma*.

Twenty one isolates of antagonists were sequenced and deposited in the NCBI gene bank database under accession numbers OR243738, OR232240, OR243728, OR234685, OR243729, OR234683, OR234737, OR243739, OR243730, OR335650, OR335579, OR335580, OR335648, OR335435, OR335657, OR335590, OR335655, OR335586, OR335658, OR335765.

For the management of Black Scurf of potato crop, fungicide Thifluzamide 24 SC @ 0.35 % at the time of planting gave the good results with 2.35 % disease incidence and 2.00 %, disease severity.

Aqueous leaf extract of *Agave Americana* has shown strong nematocidal activity against *Meloidogyne javanica*.

A new disease, pod rot of Black gram (*Vigna mungo* (L.) Hepper) was observed in Pantnagar and reported for the first time from India (Published in Journal of Plant Disease, American Phytopathological Society).



Pod Rot disease of Black gram first observed and reported in India at Pantnagar

Training/Workshop/Seminar

- Two days training programme on “Disease Diagnosis, Identification of Plant Pathogens, Isolation & Mass

Production of Biocontrol Agents” was organized for UG & PG students on October 17 & October 21, 2023. Dr. Raman Kumar Walia, Former Head of Department of Nematology, and Associate Dean, College of Agriculture, H. A. U., Hissar (Haryana), Eminent Nematologist & Former Project Coordinator, ICAR-AICRP (Nematodes) and Dr. J.C. Bhatt, Eminent Plant Pathologist & former, Director ICAR-VPKAS, Almora (Uttarakhand) delivered lectures and imparted hands on training to the students.

- Organized Annual Workshop of AICRP on Maize w.e.f. April 12-14, 2023. Scientists participating from different AICRP Centres across the country presented their research findings and finalized future technical programme.



Student Achievements

- Ms. Aditi Dobhal, Ph.D student received the best poster award in a DST-SERB sponsored National Symposium on "Crop Health Management: Safeguarding Crop through Diagnostics and Innovations" held on September 29-30, 2023 at ICAR-VPKAS, Almora.
- Ms. Chandana. R., M.Sc. student awarded ICAR-SRF for her Ph.D. from GKVK, UAS, Bangalore.
- Mr. Bishal Roy, M.Sc. student awarded ICAR-SRF for his Ph.D. from IARI, New Delhi.
- Mr. Chetan Manohar, M.Sc. student selected as Technical Support Officer in Syngenta India Ltd., Ballari, Karnataka.
- Ms Sneha Sikha, Ph.D. student selected as Assistant Professor, Plant Pathology at BAU, Sabour, Bihar

Publications

- Research Papers: 32 (above NAAS rating 6.0- 21Nos.)
- Books: 01
- Chapters in Books: 02
- Popular Articles: 10

Department of Soil Science



Left To Right - Ist Row (Standing): Isha, Pooja Nain, Geetanjali Bhandri, Meenal Singh, Deepanjali Gupta, Rakhi Kannaajia, Divya Raj, Barsha, Pooja Kaira, Kumpatla Rupa, Shikha, Rekha Bhandari, Nilesh Joshi, K.C. Pant, Anil Kumar, Sharwan Lal Yadav

IInd Row (Chair): Dr Manish Rani, Dr Veer Singh, Dr Poonam Gautam, Dr A.K. Pant, Dr Navneet Pareek (Pro. & Head), Dr. S.K. Kashyap (Dean, Ag.), Dr K. P. Raverkar (Dean, PGS), Dr. Jai Paul, Dr, S. P. Pachauri, Dr A.K. Tyagi

IIInd Row (Sitting): Tarun Uniyal, Nikhil Anand, Vipasha Rawat, Sandhya Dabral, Julie Chandra, Divyanshu Verma, Ujjwal Vikas Saudan Singh



Dr. Navneet Pareek
Prof. & Head

Department of Soil Science feels pride to state that it has produced two Jawaharlal Nehru Awardees for outstanding doctoral dissertation which justifies the level of research being conducted in the department under the supervision of its eminent faculty members.

Genesis with Mission and Vision

Department of Soil Science was established in 1960 as a part of the College of Agriculture in the University. Our department deals with soil as a natural resource on the surface of the earth including soil formation, classification and mapping; physical, chemical, biological, and fertility properties of soils per se; and these properties in relation to the use and management of soils. We trained our PG and Doctoral program students in the above branches of soil science. The postgraduate programme at Master's level started in 1963 and Ph.D. programme in 1967. Since then a significant increase in the size of faculty and the areas of specialization, remarkable improvement in the laboratory facilities and appreciable growth in the number of courses have been registered.

Soil is the outer, very thin coat of the planet's crust. This coat can be as thin as a few millimetres, or as thick as a few meters when time and stable environmental conditions favour long soil formation. Soil always comprises a complex mixture of gases, mineral and organic particles, liquids, and life – all of which interact with each other.

Vision

To develop a centre of excellence in creating and disseminating knowledge in Soil Science for sustainable and productive use of natural resources for the welfare of humankind.

Mission

- To provide high quality education to the students with an understanding of and ability to apply fundamental principles of Soil Science and natural resource management
- To develop knowledge of soil science and the interrelationships with plant nutrition, plant growth and environmental quality

- To apply this knowledge to advance resource efficient and environmentally sound soil management technologies.

Mandate

- Development of efficient soil technologies for judicious use of natural resources.
- Sustaining soil health in the changing climate scenario.
- Evaluation of new age fertilizers to increase fertilizer use efficiency.
- Imparting training to youth to develop skill on various aspects of natural resource use and conservation for sustaining soil health and crop productivity.

Faculty Member

Sl. No.	Name	Designation	Specialization
1.	Dr. Navneet Pareek	Prof. & Head	Soil Fertility/ Soil Microbiology
2.	Dr Ramesh Chandra	Professor	Soil Fertility/ Soil Microbiology
3.	Dr. K. P. Raverkar (Currently Dean PGS)	Professor	Soil Microbiology
4.	Dr Ajaya Srivastava	Professor	Soil Chemistry/ Soil Fertility/
5.	Dr. Shri Ram	Professor	Soil Chemistry/ Soil Fertility/ Nanotechnology
6.	Dr. Jai Paul	Professor	Soil Chemistry/ Soil Fertility
7.	Dr. A.K. Pant	Professor	Soil Chemistry/ Soil Fertility
8.	Dr. Poonam Gautam	Professor	Soil Chemistry/ Soil Fertility Soil Microbiology
9.	Dr. S.P. Pachauri	Professor	Soil Chemistry/Micronutrients
10.	Dr. A. P. Singh	Professor	Soil Fertility/Soil Chemistry
11	Dr. Veer Singh	Professor	Soil Physics/Soil Fertility
12	Dr S. P. Gangwar	SRO	Soil Microbiology/ Soil Chemistry
13	Dr. A. K. Tyagi	Asstt. Prof.	Soil Chemistry/ Soil Fertility
14.	Dr. Manisha Rani	Asstt. Prof.	Soil Physics/ Soil Fertility

Research Project running in the Department

Sl.No.	Title of the research project	P.I.	Co-P.I.	Funding Agency
India Coordinated Research Projects				
1.	AICRP on MULLaRP (Soil Microbiology component)	Dr. Navneet Pareek	-	ICAR
2.	AICRP on Chickpea (Soil Microbiology component)	Dr. Navneet Pareek	-	ICAR
3.	AICRP on Soybean improvement (Soil microbiology component)	Dr. Navneet Pareek	Dr. K.P. Raverker	ICAR
4.	AICRP on maize improvement (Soil Science component)	Dr. Veer Singh	-	ICAR
5.	AICRP on long term fertilizer experiments	Dr. Shri Ram	-	ICAR

6.	AICRP on Soil Test Crop Response Correlation	Dr. Poonam Gautam	-	ICAR
7.	AICRP on micro and secondary nutrients and pollutant elements in soils and plants	Dr. S.P. Pachauri	Dr. A.K. Tyagi	ICAR
8.	AICRP on Integrated farming system (Soil Science component)	Dr. Ajeet Pratap Singh	-	ICAR
9.	AICRP on rice (Soil Science component)	Dr. A. K. Pant	-	ICAR
10.	AICRP on Water Management (Soil Science component)	Dr Manisha Rani	-	ICAR
11.	AINP on soil biodiversity-biofertilizers	Dr. K.P. Raverker	-	ICAR
Ad-hoc research project				
12.	Fertility studies of AGMA Energy Pvt. Ltd. AMF (<i>Arbuscular Mycorrhizal Fungi</i>) for yield increase in rice	Dr. Ajeet Pratap Singh	Dr. Navneet Pareek	M/S AGMA Energy Private Limited, New Delhi
13.	AGMA (Studies on the efficacy of AGMA-Foliar (Brand Name: Kazuki Gold/ Yashi Gold) for growth, development and yield increase in Paddy	Dr. Ajeet Pratap Singh	-	
14.	Progibb Sugarcane (Evaluation of Bio-efficacy of Gibberellic Acid 0.1% Gr in Sugarcane and its effect on succeeding crop)	Dr. Ajeet Pratap Singh	Dr. Navneet Pareek	M/S Sumitomo Chemical India P. Ltd. New Delhi
15.	Impact of Nano fertilizers, biofertilizers and sea weed extracts on crop yields and soil health	Dr. Ramesh Chandra	Dr. Navneet Pareek	IFFCO, New Delhi
16.	Bio-efficacy study of AGMA Energy Pvt. Ltd. Mycorrhiza in wheat	Dr. Ramesh Chandra	Dr. Navneet Pareek Dr. Ajeet Pratap Singh	M/S AGMA Energy Private Limited, New Delhi
17.	Bio-efficacy trial on Urea Ammonium Nitrate (UAN) on Paddy Rice Crop		-	M/s Krishi Rasayan Export Pvt. Ltd. Delhi
18.	Impact of nano-fertilizers on crop yield of rice maize and soil health (funding agency - IFFCO)	Dr. Navneet Pareek	Dr. Ajeet Pratap Singh Dr Ajay Kumar Srivastava	IFFCO, New Delhi
19.	Characterization of kidney bean (Rajmash) rhizosphere microbiome from higher altitude of Indian Central Himalaya and it's field applications.	Dr. Navneet Pareek (Soil component)	-	Ministry of Environ., Forest and Climate Change, GOI
20.	Exploring the possibilities of introduction and integration of nettle based liquid fermented organic Vrikshaayurveda concoction on various selected crop of district Almora	Dr. Navneet Pareek (Soil component)	-	Ministry of Environ., Forest and Climate Change, GOI
21.	Efficacy studies of Nano NPK fertilizers (6:10:4) on paddy	Dr. S.P. Pachauri	Dr. A.K. Tyagi	DCM Shriram Fertilizers & Chemicals Gurgaon, Haryana

Programme running in the Department

Degree Programmes	Number of seats				
	Uttarakhand domicile	ICAR	Payment seat	Other state	Total
M.Sc	8	2	02	-	12
Ph.D	4	1	2	1	08

Salient Achievements of the Department

- The department organized two days training programmes for the UG/ PG students of University on the topic "Modern Analytical Techniques used for Soil and Plant Analysis to Improve Soil Health" on 17.10.2023 & 18.10.2023.
- The Soil Testing Lab has analyzed more than 364 soil samples till date and provided recommendations to farmers to sustain the crop productivity and soil health. The soil health card also provided to the farmers of District Udham Singh Nagar, which proved very helpful in sustaining soil health and thereby increase in crop yield.
- Organized World Soil Day- 2023 on 5th December 2023 by conducting three events viz. A poster competition for PG and Ph D. Students of the department, b) Quiz for undergraduate students and c) Painting competition for school children.

- Dr. A. P. Singh, Professor, Soil Science participated in Pre Commission training (90 days) at Officers Training Academy, Nagpur and Air Force Station, Chennai for Commission in NCC as Flying Officer.
- Dr. S. P. Pachauri and Dr A. K. Tyagi and their team of AICRP-MSPE organized training for SC farmers at Maldhan village of Ramnagar block of Nainital district and distributed micronutrient fertilizer among the SC farmers on 29.05.2023.
- Department has filed and published one patent on micronutrient mixture for all cereals, fruits and vegetable crops.

Publication

Research Papers: 30

book chapter: 01

Following students got placement/award in different organizations during the year 2023

Sl. No.	Name and Id. No	Id No.	Post and Organization
1.	Ms. Meenakshi Saraswat	53982	Assistant Agriculture Officer, Dept. of Agriculture, Rajasthan
2.	Ms. Swapnil Bisht	41452	Assistant Agriculture Officer, Dept. of Agriculture, Uttarakhand
3.	Mr. Amritanshu	58073	Deputy Manager, HDFC Bank
4.	Mr. Chayan Pant	45966	Guest Faculty, USCG Uttarakhand University of Horticulture & Forestry, Bharsar
5.	Ms. Shreyshi Arya	48396	Research Associate (Soil Science) Sector- Research and Development AgroNxt Services Private Limited
6.	Mr. Anuj Saraswat	58083	Won the Junior Scientist Conference Scholarship Award at "ICOBTE & ICHMET- 2023 Best Oral Presentation award at 5 th International Conference on "Global Insights on Research & Development in Agriculture, Horticulture and Allied Sciences

Infrastructure development in 2023

Department has procured new portable rapid automated Soil Testing & Agronomy advisory device (BHU- VISION Krishi RASTAA Soil Testing Device) to strengthen the analytical work of research and under graduate and post graduate classes.



Prize distribution to the winners of the Poster Competition held on the occasion of World Soil Day dated 5th Dec. 2023



World Soil Day 2023 celebration on 5th December by the Department of Soil Science



Participating students in painting competition on 05th December, 2023



Micronutrient fertilizers distribution to the SC community farmers in Ramnagar Block



Group photograph of faculty and PG students of the department

Department of Vegetable Science



Left to Right - Ist Row (Standing) : Vinay Kumar, Himanshu Bhatt, Imamuddin Shah, Deepesh Keshri, Sudhanshu Verma, Swagat Ranjan Bahera, Akshita Bisht, Riya Pandey, Vatsala Tiwari, Swati Kushwaha, Priyanka Panwar, Richa Thapliyal, Sheela Pundir, Vanshika Mandrwal, Kanchan Kotiyal, Madhuri Bhatt, Sheetal Rana and Hitaishi Kuriyal

IInd Row (Chair) : Dr. Alka Verma, Dr. Dharendra Singh, Dr. D. K. Singh (HOD), Dr. S. K. Kashyap (Dean), Dr. Lalit Bhatt and Dr. S. K. Maurya

IIIRD Row (Sitting) : Udham Singh, Gaurav Chandra Sanwal, Pankaj Kumar, Rahul Rawat, Vaidehi Panchawatkar, Kavita Bhatt, Mahima Sanodiya, Amrita Yadav, Sachin Rawat and Ashik Husain



Dr. D. K. Singh
Professor & Head

The Department of Vegetable Science has demonstrated significant contributions, having released/identified a total of 41 varieties at the state/ National level. At the forefront of innovative research, the department has unveiled four distinct varieties suitable for polyhouse cultivation (2 in Tomato and 2 in Cucumber. Moreover, it has successfully standardized 50 agro-techniques across various vegetable crops, emphasizing its commitment to advancing agricultural practices and crop productivity.

Genesis with Mission and Vision

The Academic Council, in its meeting on August 11, 1994, approved the M.Sc. (Ag.) and Ph.D. programs in Horticulture (Vegetable Science) within the Department of Vegetable Science, effective from the academic year 1995-96. Subsequently, the Council sanctioned the creation of a separate Department of Vegetable Science following the bifurcation of the existing Department of Horticulture. The Board of Management, during its 156th meeting on January 31, 1995, granted approval for the establishment of the Department of Vegetable Science. Consequently, the formal inception of the Department of Vegetable Science at the main campus occurred on January 31, 1995.

The department of Vegetable Science serves as a center of excellence in creating, acquiring and disseminating knowledge in Vegetable Science for sustainable and productive use of the produce for the welfare of mankind/ society. The Department envisions the seamless integration of all three functions of a land grant institution viz., education, research and extension service for sustainable development of Vegetables and allied sectors.

Mandate

- To offer courses in Vegetable Science to under graduate students of agriculture and other streams.
- To conduct post graduate programmes for Masters and Ph.D degree in Horticulture (Vegetable Science).
- To carry out basic and strategic research on Vegetables for development of new varieties.
- To develop superior, disease and insect- pest resistant high yielding varieties/ hybrids of major Vegetable Crops and also develop the varieties/hybrids suitable for protected cultivation.
- Standardization and demonstration of advanced production and protection technologies including protected cultivation.
- Production and distribution of high quality vegetable breeder seeds and planting materials.
- Collection, evaluation and maintenance of vegetable germplasm.
- Organic farming on vegetable crops.
- To disseminate and promote technologies for sustainable management of vegetables and their resources.

List of Faculty Members

S.No.	Faculty members	Designation	Specialization
1.	Dr. Dinesh Kumar Singh	Professor & Head	Vegetable Breeding
2.	Dr J P Singh	Professor	Vegetable Breeding
3.	Dr Manoj Raghav	Professor	Vegetable Production
4.	Dr Dharendra Kumar Singh (On Leave)	Professor	Vegetable Breeding
5.	Dr. Dharendra Singh	Professor	Vegetable Breeding
6	Dr. Lalit Bhatt	SRO	Vegetable Production
7	Dr. Suresh Kumar Maurya	SRO	Vegetable Breeding
8.	Dr. Alka Verma	JRO	Vegetable Breeding

Programmes running in the Department

Name of the Programme	Number of Seats				
	Uttarakhand Domicile	Others	ICAR	Payment seat	Total
M. Sc.	06	-	03	01	07
Ph. D.	04	01	NIL	02	07

Salient achievements of the Department

Faculty Achievements

Dr. Dinesh Kumar Singh has been felicitated with the award of Honoris Causa honorary ambassador an International peace ambassador award council 2023 along with the membership for lifetime from the World Peace Institute of United Nations Council and entitled for Honorary Doctorate for his significant contribution towards society.

Student's achievements

S.No.	Name of the Students	Degree	ID No.	Achievements
1.	Sudhanshu Verma	Ph.D. 2 nd Year	59764	ASRB NET & UGC NET (Environmental Science)
2.	Madhuri Bhatt	Ph. D. 1 st Year	57946	ASRB NET
3.	Priyanka Panwar	Ph. D. 2 nd Year	59769	ASRB - NET
4.	Shalvi	M.Sc. Passed out 2023	58173	ASRB- NET and ICAR-SRF

5.	Sheetal Rana	Ph.D. 3 rd Year	58112	ASRB-NET 2023
6.	Deepesh Keshari	Ph.D. 3 rd Year	58295,	ASRB NET
7.	Riya Pandey	Ph.D. 2 nd Year	56513	ASRB NET -2023
8.	Swagat Ranjan Behera	Ph. D. 1 st Year	60803	ASRB NET -2023
9.	Hitaishi Kuriyal	Ph.D. 3 rd Year	58111	ASRB NET
10.	Vatsala Tewari	Ph.D. 2 nd Year	55329	ASRB- NET
11.	Neelima Rawat	Ph.D. 3 rd Year	58476	ASRB NET 2023
12.	Dr. Priyanka	Ph.D Passed out 2023	52547	ASRB NET -2023
13.	Dr. Vinay Kumar	Ph.D Passed out 2023	56621	ASRB NET -2023

Publication released

Research paper: 06

Student Activities

An educational tour



Dr. YS Parmar University of Horticulture and Forestry, P O Nauni



ICAR-CPRI, Shimla, Himachal Pradesh

Faculty participation in taking the College ahead

The Heads of Departments

The heads of departments are the administrative roots of the University. In the College, the heads sat together in the year 2023 with the Dean for the smooth functioning of the College. The academic, research, management and other aligned activities were taken efficiently across the departments with the proactive and agile roles of the heads. The academic structure of the College sustained very effectively and smoothly throughout the year with

teaching, research, advisement, examinations, seminars, webinars, viva, RAWE, experiential learning, reporting, documentation, alumni network management, students' activities and other aligning responsibilities were proficiently conducted with the very active support of faculty members of the department, under the departmental heads.



Dr. V.L.V. Kameswari
Professor & Head,
Agril. Communication



Dr. H.N. Singh
Professor & Head,
Agril. Economics



Dr. Ravi Kiran
Professor & Head,
Agrometeorology



Dr. M.S. Pal
Professor & Head,
Agronomy



Dr. Pramod Mall
Professor & Head,
Entomology



Dr. S. K. Sharma
Professor & Head,
Food Science &
Technology



Dr. J. P. Jaiswal
Professor & Head,
Genetics & Plant
Breeding



Dr. V.K. Rao
Professor & Head,
Horticulture



Dr. Yogendra Singh
Professor & Head,
Plant Pathology



Dr. Navneet Pareekh
Professor & Head,
Soil Science



Dr. D. K. Singh
Professor & Head,
Vegetable Science

College Core Action Group (C.C.A.G.)



From Left to Right: Dr Shweta Chaudhary, Dr Alka Verma, Dr Shweta Uniyal, Dr Geeta Sharma, Dr P.K. Pandey, DR S.K. Kashyap, Dr S. P. Pachauri, Dr J. P. Purwar, Dr Anil Kumar, Dr Santosh Yadav, Dr Rajeev Ranjan

College Academic Committee (C.A.C.)



From Left to Right: Dr Shweta Rai, Dr M. A. Ansari, Dr S.K. Kashyap, Dr J. P. Jaiswal, Dr V.P. Dhyani

College Documentation and Showcasing Committee (C.D.S.C.)



From Left to Right: Dr. Shweta Chaudhary, Dr S.K. Kashyap, Dr. Amit Keasarvani, Dr Shilpi Rawat

College Infrastructure & Maintenance Committee (C.I.M.C.)



From Left to Right: Dr. Satish Chandra, Dr Chandra Dev, Dr S.K. Kashyap, Dr. Rajjev Ranjan, Dr Shweta Uniyal

College Placement Committee (C.P.C.)



From Left to Right: Dr Anil Kumar, Dr. Shweta Chaudhary, Dr S.K. Kashyap, Dr. Omvati Verma, Dr Usha Pant, Dr S.K. Maurya

The Online Certificate Courses

The faculty ran nine certificate courses of three months each in year 2023 involving about 150 participants

from all across the country. Each course consisted of 12 video lectures, 60 reading assignments, 12 weekly

quizzes, 12 online interaction and Q&A sessions, one final examination and 1-2 webinars of illustrious national experts. Dr. Ranjan Srivastava, Professor, Horticulture and Dr. Ravi Mohan Srivastava, Professor, Entomology are the coordinators for these courses.

Coordinator



Dr. Ranjan Srivastava
*Professor,
Horticulture*

Co-Coordinator



Dr. R.M. Srivastava
*Professor,
Entomology*

Certificate Course on Livelihood Security through Integrated Farming



Dr. D.K. Singh
Professor, Agronomy



Dr Subhash Chandra
Professor, Agronomy



Dr Rohitashv Singh
Professor, Agronomy



Dr V.K. Singh
Professor, Agronomy



Dr M.S. Pal
Professor & Head, Agronomy



Dr K.P.S. Raverkar
Professor, Soil Science



Dr. A.K. Singh
Professor, Horticulture



Dr. A.P. Singh
Professor, Soil Science



Dr S.K. Mishra
Professor, Plant Pathology



Dr Poonam Srivastava
Professor, Entomology



Dr Omveer Singh
Professor, Horticulture



Dr Lalit Bhatt
S.R.O, Vegetable Science

Certificate course on Seed Production Technology



Dr Salil Tiwari
Professor,
Genetics & Plant Breeding



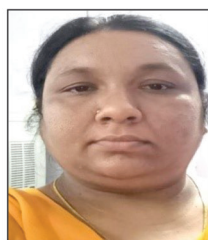
Dr M.K. Nautiyal
Professor,
Genetics & Plant Breeding



Dr J P Jaiswal
Professor & Head,
Genetics & Plant Breeding



Dr N. K. Singh
Professor,
Genetics & Plant Breeding



Dr Usha Pant
S.R.O.,
Genetics & Plant Breeding



Dr S.K. Verma
Professor,
Genetics & Plant Breeding



Dr I. D. Pandey
Professor,
Genetics & Plant Breeding

Certificate course on Processing of Fruits, Vegetables and Spices



Dr. Satish Kumar Sharma
Professor & Head,
Food Science & Technology



Dr. Sabbu Sangeeta
Assistant Professor,
Food Science & Technology



Dr. R.K. Singh
Professor & Head,
Agrometeorology



Dr. Rajeev Ranjan
Assistant Professor,
Agrometeorology

Certificate course on Protected Cultivation for Horticultural Crops



Dr. V.P. Singh
Professor,
Horticulture



Dr. S. K. Maurya
J.R.O.,
Vegetable Science



Dr. Dhirendra Singh
Professor & Head
Vegetable Science



Dr. Lalit Bhatt
Junior Research Officer,
Vegetable Science



Dr. Anju Pal
Asstt. Professor,
Horticulture



Dr. Ajeet Kumar
Professor,
Horticulture



Dr. V.K. Rao
Professor,
Horticulture

Certificate course on Mushroom Cultivation



Dr. K.P.S. Kushwaha
Professor,
Plant Pathology



Dr. Sarvesh Mishra
Senior Research Officer,
Plant Pathology



Dr. Geeta Sharma
Junior Research Officer,
Plant Pathology



Dr. Shilpi Rawat
Junior Research Officer,
Plant Pathology



Dr. Satya Kumar
Professor,
Plant Pathology

Certificate course on Nursery Production and Management



Dr. D.C. Dimri
Professor & Head,
Horticulture



Dr. Ajeet Kumar
Professor,
Horticulture



Dr. S.K. Maurya
J.R.O.
Vegetable Science



Dr. A.K. Singh
Professor,
Horticulture



Dr. B.D. Bhuj
Professor,
Horticulture



Dr. Ratna Rai
Professor,
Horticulture



Dr. Rashmi Panwar
Assistant Professor,
Horticulture



Dr. Satish Chand
Senior Research Officer,
Horticulture



Dr. Dharendra Singh
Professor & Head,
Vegetable Science



Dr. Pratibha
Assistant Professor,
Horticulture



Dr. Shweta Uniyal
Assistant Professor,
Horticulture

Certificate course on Mass Production of Important Bioagents



Dr. Renu Pandey
Assistant Professor,
Entomology



Dr. Roopali Sharma
Professor,
Plant Pathology



Dr. R. P. Maurya
Associate Professor,
Entomology



Dr. Pramod Mall
Professor & Head,
Entomology

Certificate course on Beekeeping

The Examination Cell

The Cell functioned round the year to facilitate all the examinations, paper setting, evaluation, marks submission and registration processes. Dr. R.M. Srivastava, Professor, Entomology is holding the Examination Cell as Coordinator Examination. Dr. Amardeep, Professor,

Agricultural Communication and Dy. Coordinator, alongwith Coordinator, Examination Cell took efforts to support the examination paper formation, conduct of hourlies and final examinations of year 2022-23.



Dr. R. M. Srivastava
Coordinator Examination



Dr. Amardeep
Dy. Coordinator Examination

The RAWE Team



From Left to Right: Dr. Shaalbala, Dr. Manisha Rani, Dr. Arpita Sharma, Dr. Swati, Dr. Kiran Rana, Dr. Satya Kumar, Dr. M.S. Pal, Dr. S.K. Kashyap (Dean), Dr. Ajit Kumar, Dr. K.P.S. Kushwaha, Dr. J.P. Purwar, Dr. S.K. Maurya, Dr. Rajeev Ranjan, Dr. A.K. Tripathi

The NSS Team



From Left to Right: Dr. Alka Verma, Dr. Ajay Kumar Tripathi, Dr. Amit Kesarvani, Dr. Ruchi Rani Gangwar

The College Faculty with University Responsibilities

The College faculty members have been successfully looking after various responsibilities across the University besides the basic task of teaching, research and extension in the College. It is the broader role of the College to sustain excellence in the campus.

- Dr. S.K. Kashyap, Dean, College of Agriculture and PI, IDP-NAHEP
- Dr. K.P. Raverkar, Registrar, Dean, Post Graduate Studies; Director, Placement & Counselling
- Dr. A.S. Nain, Director, Experiment Station
- Dr. J.P. Jaiswal, Director Communication, Nodal Officer, Pantnagar Centre for Plant Genetic Resources and Chief Coordinator & Secretary, Alumni Almamater Advancement Association (4A)
- Dr Arpita Sharma Kandpal, Staff Counselor, University Sports club
- Dr. A.K. Singh, Joint Director, Horticulture Research Centre
- Dr. A.K. Tripathi, Warden, CB-II, staff counselor, University Literary Society
- Dr. A.P. Singh, Associate Director, NEB Crop Research Centre and Chief Operating Officer, STRIEDS, Flying Officer, NCC
- Dr. A.S. Jeena, Research School Director, General Bipin Rawat Research School on Hill Development Pantnagar, Purchase Officer GeM and e-Tender (DES), Joint Director, Breeder Seed Production, Pantnagar
- Dr. Ajay Kumar, Assistant Director Research and Chief Operating Officer, STRIEDS
- Dr. Amardeep, Editor, Kisan Bharti
- Dr. Anil Kumar, Associate Director, Breeder Seed Production Centre
- Dr. Anju Pal, Warden, Subhash Bhawan
- Dr. Dharendra Singh, Joint Director, Intellectual Property Management Centre
- Dr. Dinesh K. Singh, Officer Incharge, Khanna Farm
- Dr. Kiran Rana, Co- Staff Counsellor, Sanskritik Chetna Parishad Professional Society
- Dr. Kranti Kumar, Assistant director, Instructional Dairy Farm
- Dr. Lalit Bhatt, Officer In-charge, Vegetable Research Centre
- Dr. M.A. Ansari, Editor, Indian Farmers' Digest
- Dr. M.S. Negi, Additional Chief Personnel Officer; Joint Director Research,
- Dr. M.S. Pal, Warden, Vivekanand Bhawan
- Dr. Pramod Mall, Joint Director, Model Bee Research & Training Centre
- Dr. Pratibha, Assistant Director, Horticulture Research Centre
- Dr. R.M. Srivastava, CEO, Pant Business Park and Startup Incubator STRIEDES
- Dr. Ranjan Srivastava, Joint Director, Extension Education and Member University Disciplinary Committee
- Dr. Rashmi Panwar, Warden, Sarojini Bhawan
- Dr. Rashmi Tewari, Warden, Golden Jubilee
- Dr. S.K. Maurya, Warden, CB-I
- Dr. S.K. Mishra, Joint Director, Mushroom Research and Training Centre
- Dr. S.K. Verma, Joint Director, NEB Crop Research Centre
- Dr. Satya Kumar Liaison Officer, SC/ST Cell
- Dr. Shri Ram, Manager, Balniliyam and Balmangalam
- Dr. Shweta Chaudhary, Staff Counselor, University Sports club
- Dr. Shweta Rai, Warden, Kasturba Bhawan
- Dr. Sumit Chaturvedi, Nodal Officer, ICAR Cell/ Assistant Coordinator, Planning & Technical Cell, Office of the Vice-Chancellor; Associate Coordinator, PME
- Dr. V.K. Rao, Joint Director, Model Floriculture Centre/ OIC Garden Section
- Dr. V.P. Singh, Joint Director, Medicinal Plants Research and Development Centre
- Dr. Veer Singh, Estate Officer
- Dr. Vineeta Rathore, Staff Counsellor, Sanskritik Chetna Parishad Professional Society; Warden, Gandhi Bhawan

The Pride

Triumph Unveiled: College of Agriculture Captures Vice Chancellor's Trophy at Inter-Collegiate University Debate 2023

In a dazzling display of eloquence, the College of Agriculture emerged victorious in the 4th Inter-Collegiate University Debate, clinching the prestigious Vice Chancellor's rolling trophy in English. The event, held on November 9, 2023, at the NAHEP building and organized by the Student Welfare Section of the society, marked the third consecutive triumph for the College.

The dynamic duo of Ms. Samishta Bhatt and Mr. Gaurav Kabadwal showcased their prowess, securing the top position for the College of Agriculture in the English language category. Adding to the glory, Mr. Sahil Bhatt claimed victory for the College in the Hindi language section. Ms. Sushma Swami also garnered recognition, securing the 2nd consolation prize in Hindi.

The legacy of the College of Agriculture shines brightly through these consistent victories.



Ms. Neha Bisht from the College of Agriculture Clinches the Illustrious Chancellor's Gold Medal!



In a spectacular celebration of academic brilliance and achievement, Miss Neha Bisht, a beacon of excellence from the College of Agriculture, has ascended to the pinnacle of recognition. The radiant aura of success enveloped the Convocation held at the esteemed G. B. Pant University of Agriculture and Technology in 2023 as Ms. Neha Bisht, a distinguished member of the 2019 batch, was bestowed with the prestigious Chancellor's Gold Medal.

As the applause echoed through the hallowed halls of academia, Ms. Neha Bisht's name now resonates as a shining example of the College of Agriculture's commitment to nurturing brilliance in academic journey.

Harvesting Success: Miss Shambhavi, 2nd year Agriculture student wins National Elocution Contest

In the vibrant atmosphere of the XVI Agricultural Science Congress, hosted by CMFRI Kochi from October 10 to 13, 2023, the National Elocution Contest took center stage. As part of this prestigious event, two promising students from the College of Agriculture, representing Zone 5, earned their spots in the Zonal Elocution Contest at Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, on August 21, 2023. Among the 16 participants from 8 Agricultural Universities, Ms. Shambhavi, a talented B.Sc Agriculture II year student, not only secured one of the coveted spots for the National Level but also claimed a Rs 5K cash prize.



The grand finale, the National Elocution Contest, unfolded on October 12, 2023, under the guidance of Dr. Anupama Singh, the convener and Joint Director (Education) and Dean at IARI. Ms. Shambhavi once again

showcased her brilliance, securing the first position and earning an impressive Rs. 20K cash prize.

The College of Agriculture proudly celebrates this victory, marking a remarkable contribution to the agricultural community's pursuit of excellence.



Top rankers of ICAR-JRF exam

The College of Agriculture continues to produce agricultural stalwarts who through their immense hard work and dedication have clinched victory in ICAR-JRF/SRF2023 exam. The following students have secured All India Ranks in 2023 exam:



Mr. Surya Pratap Singh
Id No. 54424,
AIR 1,
JRF Social Science



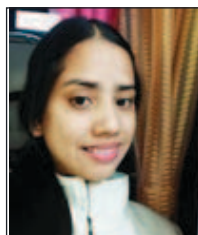
Ms. Shristi Sanwal
Id No. 54354,
AIR 4,
JRF Social Science



Ms. Akansha Upadhyay
Id. No. 54635,
AIR 7,
JRF Horticulture



Ms. Shivani Kanyal
Id No. 54378,
AIR 15,
JRF Plant Biotechnology



Ms. Garima Kanyal
Id No. 54384,
AIR 16,
JRF Horticulture



Ms. Geetanjali Joshi
Id No. 54675,
AIR 23,
JRF Food Science
and Technology



Mr. Varun Raghuvanshi
Id no. 54467,
AIR 23,
JRF Agronomy



Mr. Rajnish Pandey
Id. No. 54509,
AIR 23,
JRF Social Science



Ms. Pooja Belwal
Id No. 54464,
AIR 25,
JRF Plant Science



Mr. Mohd. Yameen
Id. No. 54376,
AIR 33,
JRF Entomology



Mr. Vijay Prakash
Id No. 54437,
AIR 63,
JRF Plant Science



Ms. Meghna Sarkar
Id No. 54451,
AIR 73,
JRF Plant Science



Mr. Paritosh Kumar
Id No. 54461,
AIR 73,
JRF Social Science



Mr. Ravi Kumar Jha
Id No. 54455,
AIR 73,
JRF Social Science



Mr. Lokesh Singh Bohra
Id No. 54482,
AIR 75,
JRF Agronomy



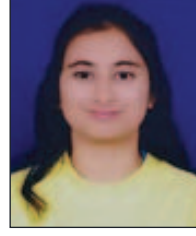
Mr. Vivek Balloda
Id No. 54471,
AIR 78,
JRF Physical Science



Mr. Akhilesh Singh
Id. No. 54462,
AIR 96,
JRF Entomology



Ms. Aishna Srivastava
Id No. 54458,
AIR 106,
JRF Plant Science



Ms. Harshita Verma
Id. No. 54644,
AIR 137,
JRF Horticulture



Ms. Kamakshi Kandpal
Id. No. 54389,
AIR 142
JRF Plant Science



Ms. Ayushi Shankar
Id. No. 54398,
AIR 147,
JRF Horticulture



Mr. Ramki Bhukya
Id. No. 54479,
AIR 150,
JRF Entomology



Ms. Divya Koranga
Id. No. 54423,
AIR 174,
JRF Plant Science



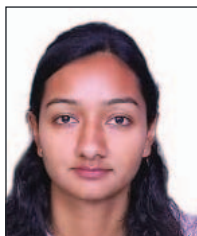
Mr. Paras Arya
Id. No. 54395,
AIR 175,
JRF Agronomy



Ms. Ishika Joshi
Id. No. 54382,
AIR 230,
JRF Plant Science



Ms. Harshita Joshi
Id. No. 54457,
AIR 242



Ms. Saumya Makhloga
Id. No. 54390,
AIR 291,
JRF Plant Science



Ms. Ashutosh Kumar
Id. No. 5448,
IISc Bangalore



Ms. Bhavna Negi
Id. No. 54681,
ICT Mumbai

Agriculture graduates shine in CAT exam

Students from College of Agriculture have outperformed this time in CAT exam, achieving their dream colleges like FMS, Delhi; IIMs, IRMA and other management institutes.



Ms. Palak Chaturvedi
Id. No. 54512,
FMS Delhi



Mr. Nitin
Id. No. 54491,
IIM Ahmedabad



Ms. Chitra Joshi
Id. No. 54361,
IIM Ahmedabad



Mr. Abhijeet Sahoo
Id. No. 54477,
IIM Lucknow



Mr. Rishabh
Id. No. 54480,
IIM Amritsar



**Mr. Amritesh
Mohan Singh Jeena**
Id. No. 54431,
IMT Ghaziabad



Mr. Arpit Jain
Id. No. 54442,
IRMA, Anand



Mr. Keshav Datt Bhatt
Id. No. 54428,
IRMA, Anand



Mr. Asad Rehman
Id No. 54634,
IRMA, Anand



Ms. Mallika Tripathi
Id. No. 54412,
IRMA, Anand



Ms. Kirtika Tiwari
Id. No. 54419,
IRMA, Anand



Ms. Urvi Rai
Id. No. 54488,
IRMA, Anand



Mr. Saurabh Goswami
Id. No. 54360,
TISS Mumbai



Ms. Mansi Thapa
Id. No. 54355,
TISS Mumbai



Ms. Tejaswini Kandpal
Id. No. 54371,
TISS Mumbai



Ms. Diksha Pal
Id. No. 54375,
TISS Mumbai



Ms. Shambhavi Kunwar
Id. No. 54499,
Symbiosis Institute of
Management, Pune

Endless borders

It's a proud moment for Agriculture fraternity of G.B.P.U.A.&T. to announce that Ms. Smrutirekha Pati, I.d. no. 54454, a final year graduate of year 2023 has been selected in University of Warwick, London, U.K. for masters in Sustainable Crop Production. She hopes to study on the agricultural practices which support the environment, thereby ensuring sustainable development. Another brilliant student, Mr. Akash Sharma, Id. No. 54362 enrolled in a Masters degree programme in Applied Science in Environmental Science and Management at Toronto Metropolitan University in Ottawa, Canada. The college is elated with the achievements of these young scholars and wishes them good luck for their future endeavors.



Ms. Smrutirekha Pati
Id. No. 54454,



Mr. Akash Sharma
Id. No. 54362

The Agriculture Society 2023



Agriculture Society 2023-24

1 – Patron	Dr. M. S. Chauhan, Vice Chancellor
2 – President (Dean)	Dr S. K. Kashyap, Dean Agriculture
3-Chief Counsellor	Dr. Brijesh Singh, DSW
4 – Staff Counsellor	Dr. V. C. Dhyani, Professor Agronomy
5 – Co-staff Counsellor	Dr. Rashmi Panwar, Assistant Professor Horticulture
6 – Chairperson	Ms. Abha Bhatt (55870)
7 – Vice chairperson I	Mr. Yugal Alchauni (56859)
8– Vice chairperson II	Ms. Tanishqa Lodhi (55769)
9 – General Secretary	Mr. Devender Saharan (58263)
10 – Joint general secretary I	Ms. Manisha Kandwal (58092)
12 – Joint General Secretary II	Mr. Amit Kumar (57787)
13 – Treasurer	Mr. Vinay Nagarkoti (55740)
14 – Literary Secretary	Ms. Arjita Bora (57954)
15 – Cultural Secretary	Ms. Mahima Gaira Bisht (58134)
16 –Sports Secretary	Ms. Anjali Rangar (57786)

17 – Executives (Batch Representative(I to IV th year), Co-batch Representative(I to IV th year)	Ist Year	BR		Ms. Jahnvi Bhatt (60196) Mr. Krishna Chauhan (59947)
		Co BR	Section A	Ms. Sneha Kumari (59533) Mr. Vartul Kanwal (60066)
			Section B	Ms. Riya Jukaria (59885)
			Section C	Ms. Rashmi Kumari (59898) Mr. Rishabh Joshi (60229)
			Food Tech	Mr. Yash Danu (60254)
	IIInd Year	BR	Mr. Aryan Bhatia (58707) Ms. Shweta Singh (59744)	
		Co BR	Section A	Ms. Sanstripti Sundriyal (59048) Mr. Harshit Durgapal (59271)
			Section B	Ms. Shambhavi (58679) Mr. Om Prakash (59536)
			Section C	Ms. Kanika Kanyal (59393) Mr. Deekshant Saklani (59077)
			Food Tech	Ms. Nisha Joshi (59617) Mr. Sushant Kumar Chauhan (59504)
	IIIrd Year	BR	Ms. Twesha Pandey (58314) Mr. Prateek Sharma (57843)	
		Co BR	Section A	Ms. Ankita Rodhial (57900) Mr. Akash Joshi (57822)
			Section B	Ms. Nidhi Bhatt (57801) Mr. Shubhanshu Kalkhundiya (57770)
			Section C	Ms. Eshita Bisht (57725) Mr. Arjun Pundir (58370)
			Food Tech	Mr. Tarun Singh Samant (57798)
	Final Year	BR	Ms. Abha Bhatt (54458) Mr. Mohit Bhatt (55880)	
		Co BR	Section A	Ms. Monalisa Guru (55732) Mr. Piyush kumar (55785)
			Section B	Ms. Priyanka Pandey (55759) Mr. Pranshu Kunwar (56774)
			Section C	Ms. Tanvi (56404) Mr. Manish Singh (55820)

			Food Tech	Ms. Mr. Riya Tiwari (56803) Mr. Ashish Giri (56805)
18 – Chief Activity Coordinators	Ms. Simran Maurya (56918) Mr. Akarsh Nath (56414)			
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