

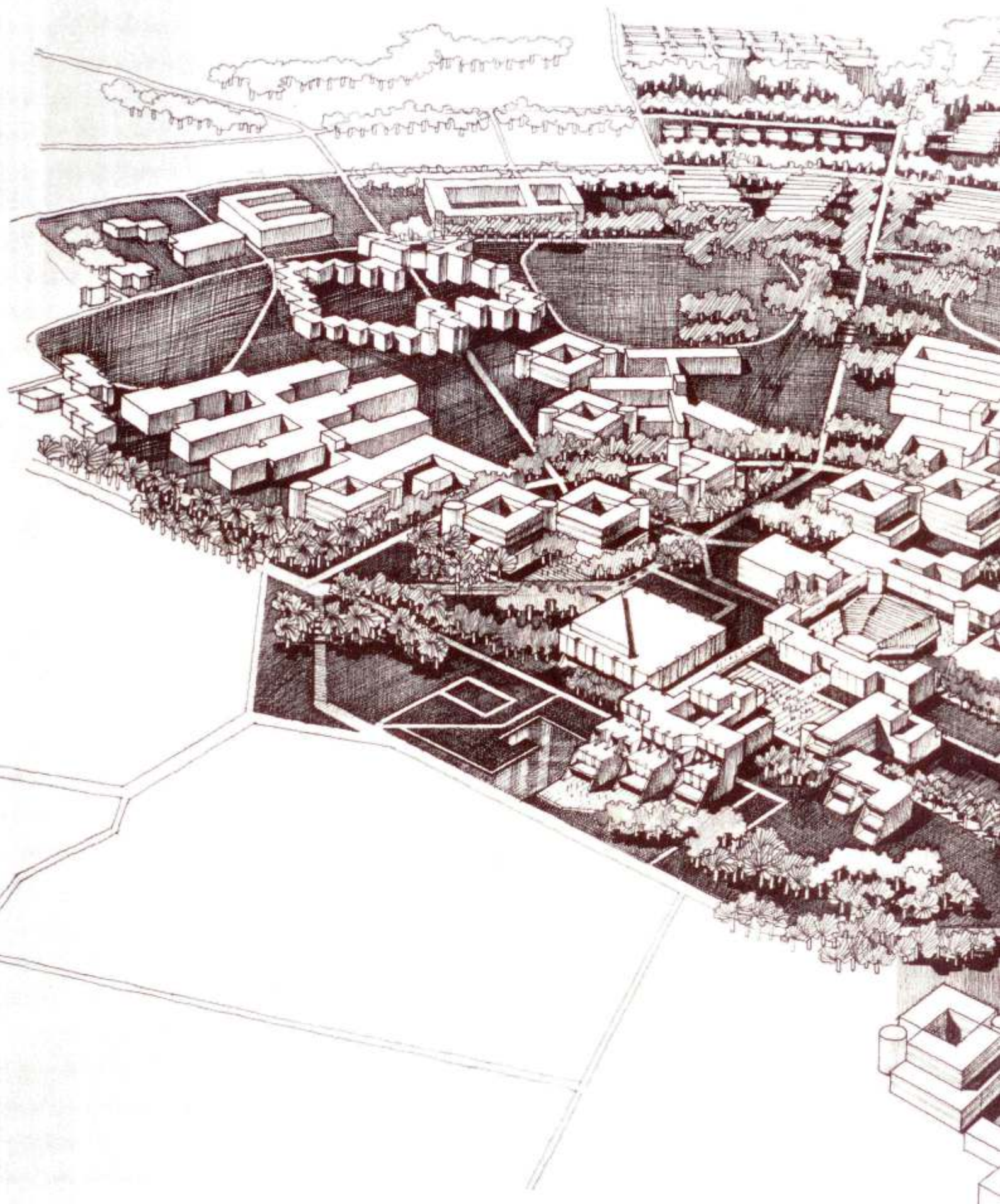
College of Agriculture

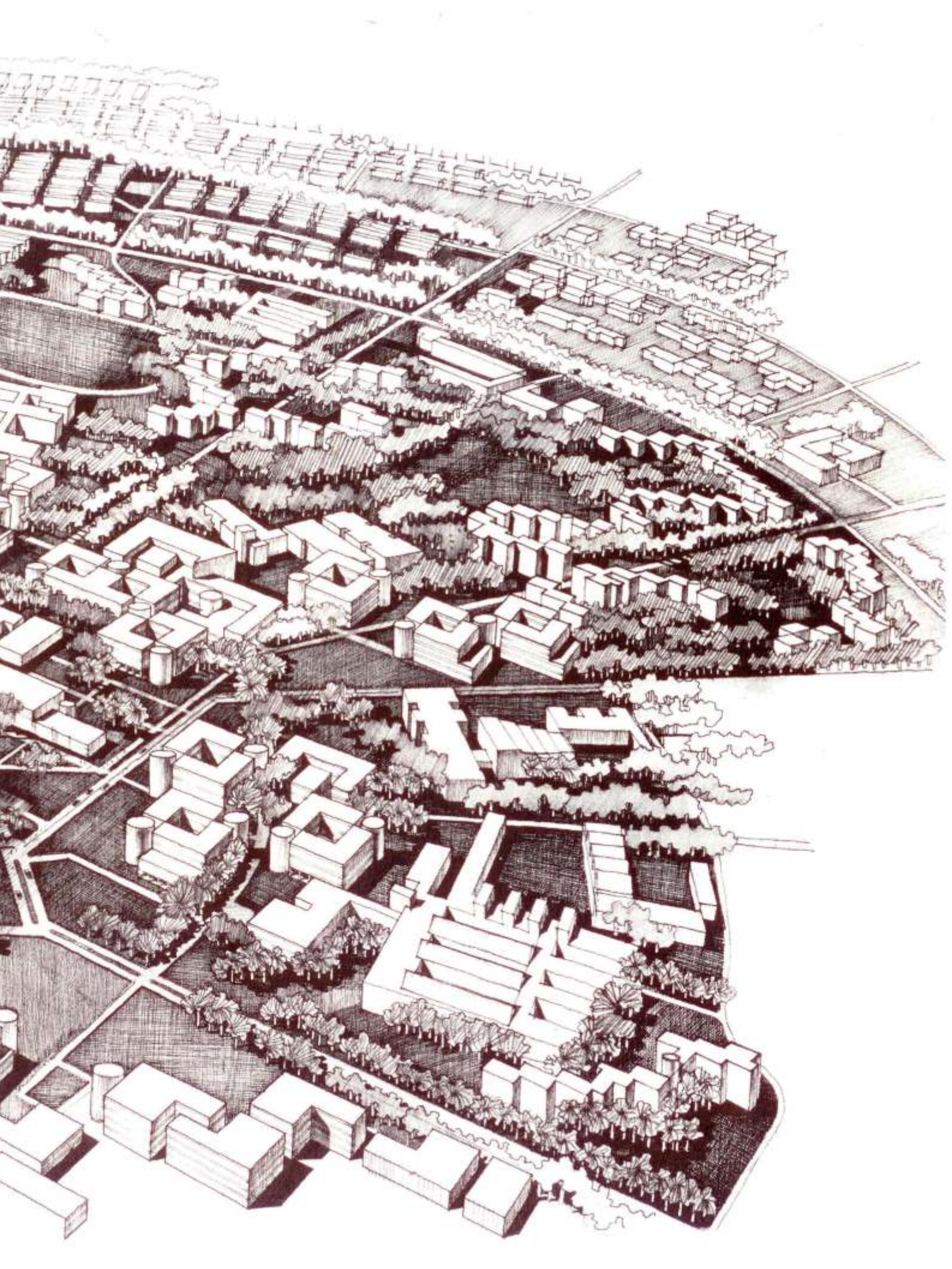
Annual Progress Report 2022

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 2022



The contributions of College of Agriculture have significantly upsurged in 2022 in context of the outputs and outcomes. The quality of publications, infrastructural development, thrust of teaching and research and academic networking has increased substantially. The significant contributions of the College supported the University to emerge in World QS Ranking 2022.

The Glimpses of Year 2022

- Total 177 students in B.Sc. Agriculture, 28 students in B.Tech. Food Technology, 91 students in Masters and 38 students took admission in Ph.D. in College of Agriculture in the academic year 2022-23.
- Total 168 students of B.Sc. Agriculture, 22 students of B.Tech. Food Technology, 114 students of M.Sc. Agriculture and 50 students of Ph.D. completed their degree successfully from College of Agriculture in the year 2022.
- College students performed excellently in JRF 2022. Ms. Astika Pandey, Id No. 52945 achieved all India rank 2 in JRF, Agronomy, Ms. Pallavi Bisht Id No. 59458 achieved All India Rank 9 in JRF, Plant Sciences, Ms. Anjali Mehta, Id No. 52695 achieved All India Rank 13 in JRF, Agronomy. Mr. Sumit Bora, Id No. 53074 achieved All India Rank 21 in JRF, Plant Sciences, Mr. Mohit Singh, Id No. 53038

- achieved All India Rank 16 in JRF, Soil Science, Mr. Atul Meena, Id No. 53093 achieved category rank 01 in JRF, Soil Science, Ms. Priya Pujari, Id No. 52976, Mr. Himanshu Bhakuni, Id No. 53015, Mr. Om Narayan, Id No. 53085 and Mr. Ravi, Id No. 52950 and many other students achieved good ranks in ICAR JRF this year.
- Ms. Richa Kumari, Id No. 53090 qualified the GAT-B examination with All India Rank 13 and secured admission in IIT Roorkee for M.Sc. Biotechnology.
 - Mr. Sanjay Palakurthy, Id No. 56722 has been enrolled in University of Connecticut, USA for doctoral studies in Genetics and Plant Breeding.
 - Ms. Mondeddu Dathri Id No. 56890 has achieved All India Rank 15 in SRF, Vegetable Science.
 - Mr. Vireesha, Id No. 57017 has achieved All India Rank 12 in SRF, Entomology.
 - Ms. Subhashree Subhashmita, Id No. 56883 has achieved All India Rank 05 in SRF, Vegetable Science.
 - Mr. Arjun Hegde, Id No. 56919 has achieved All India Rank 4 in SRF, Agriculture Physics.
 - Ms. Niharika Arora, Id No. 53045, student of B.Sc. (Hons.) Agriculture was conferred with Dr. A.N. Mukhopadhyay Gold Medal for the year 2022.
 - Dr. Anjali Joshi, Department of Genetics and Plant Breeding was conferred with Best Ph.D. Thesis award by Association of Indian Universities.
 - The year witnessed mass scale renovation work across into the College, which was critically needed to upkeep the old structures in proper shape. Total 25 projects were taken to refurbish labs, galleries, halls and other structures across 11 departments of the College.
 - The Conference Hall of College of Agriculture has been fully renovated to emerge in brilliant shape. The floor, wall panelling and roof has been aesthetically renovated along with furniture.
 - A new unit, Wellness and Meditation Centre has been established in the College premises, which was inaugurated by Dr. R.C. Agrawal, DDG (Education), ICAR and Mr. Bekzod Shamsiev, Senior Agriculture Economist, World Bank.
 - A marble statue of Swami Vivekananda in Meditating posture has been installed in the Wellness and Meditation Centre, which was unveiled by Shri Ganesh Joshi, State Agriculture Minister and Dr. Manmohan Singh Chauhan, Vice-Chancellor.
 - Remedial courses and crash courses were undertaken for six JRF disciplines for preparation of higher education entrance examinations. The sessions were guided by 12 illustrious alumni of the College.
 - Total 05 counts of new improved varieties of different crops have been released by the scientists of the College during the year 2022.
 - Four extant varieties of wheat were registered by PPV&FR Authority, Govt. of India in 2022.
 - Dr. Salil K. Tewari, Professor and Head, Genetics and Plant Breeding was conferred as Fellow of Indian Society of Agroforestry 2018 declared in 2022.
 - Dr. J.P. Jaiswal, Professor, Genetics and Plant Breeding was conferred with Dr. V.S. Mathur Memorial Award 2022 by ISGPB, Dr. S. Radhakrishnan Best Teacher-Researcher Award by Association of Indian Universities and SAWBAR Fellowship 2022 by Society for Advancement of Wheat and Barley Research, ICAR-IIWBR, Karnal.
 - Dr. J.P. Jaiswal, Professor, Genetics & Plant Breeding and Dr. N.K. Singh, Professor, Genetics and Plant Breeding visited the University of Agronomic Sciences and Veterinary Medicine, Bucharest, Romania under Faculty Exchange programme funded by IDP-NAHEP during October 06-13, 2022.
 - Total 80 faculty members were conferred with Faculty Excellence Award for the year 2022 for their research achievements and salient academic contributions. Total 70 students of M.Sc. and Ph.D. were selected for Student Excellence Award 2022 for their publication in journals with NAAS rating above 6.00.
 - Total 22 faculty members could publish in journals with NAAS rating above 10 this year.
 - The college continued to publish monthly newsletter throughout the year, which was shared across the country.
 - Dr. Sham S. Goyal, alumnus of College of Agriculture of Batch 1964 dedicated a complete building named 'Student Centre' worth Rs. 1.00 Crore for University students.
 - Agri Alumni Association of Pantnagar (AAP), New Delhi provided amenities worth Rs. 3.50 lakhs to Gandhi Bhawan Hostel.
 - Alumni of 1972 batch of College of Agriculture contributed Rs. 10.00 lakhs for the renovation work of Gandhi Bhawan Hostel.



The College with Determination to Perform and Achieve

Dr. Manmohan Singh Chauhan, Vice-Chancellor

Creating ecosystem, generating outcomes

The College of Agriculture has demonstrated its willingness to grow through the enhanced count of tangible outcomes in the year 2022. Looking into the developments of the College, I can firmly say that a growth-oriented ecosystem prevails in the College which inspires everyone to contribute and achieve. I feel happy to observe that 62 faculty members have

Looking into the developments of the College, I can firmly say that a growth-oriented ecosystem prevails in the College which inspires everyone to contribute and achieve. I feel happy to observe that 62 faculty members have published in journals with NAAS rating above 6.0 and 23 faculty members have published in journals with NAAS rating above 10.0.

published in journals with NAAS rating above 6.0 and 23 faculty members have published in journals with NAAS rating above 10.0. It is a matter of appreciation that 10 faculty members have achieved externally-funded projects of more than 25 Lakhs in which one project, won by Dean Agriculture Dr. S.K. Kashyap single-handedly from DST is worth Rs. Five Crores. The college scientists have developed five improved varieties this year which is commendable. The accolades and achievements of the students of the College are also remarkable which has added substantially to the University ranking. All the significant responsibilities of most of the research centres of the University are borne by the faculty of this College along with their teaching, advisory and other loads which shows their consistent commitment and caliber.

I congratulate the college for its strategic growth, democratic and distributed leadership and consistently exemplary performance on all fronts and wish all the faculty members, students and workers, my heartiest greetings for the upcoming new year. I trust, the emerging year will provide the college, a lot more accolades through which the University will grow vibrantly as a Centre of Excellence.



College of Agriculture: Moving Ahead with Vision India 2047

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

Multidisciplinary, futuristic, relevant

On October 15, 2022, while addressing the Council of Scientific and Industrial Research (CSIR) society meeting, Hon'ble Prime Minister of India Sri Narendra Modi Ji appealed to the scientists of the country to develop technologies not only for India but for the world as the country moved towards its vision 2047 with the aim to emerge as a global leader. He also called upon better integration among the industry and research organisations to develop economically viable solutions towards sustainable development. PM Sri Modi also

The College systematically worked to generate vision 2047 for each discipline and also brought up a comprehensive pragmatic plan for upcoming decades to emerge as a Multidisciplinary Education and Research University (MERU) organisation. The issues of sustainability, global warming, upbringing of new varieties, organic and natural farming, bio-control, bio-agents, integrated pest and nutrient management, water and soil conservation, precision farming, protected cultivation, hydroponics, aeroponics etc. have been put to utmost thrust for futuristic development of the farming community.

emphasized upon to increase protein content in cereals, and to develop new varieties of millets to increase production and nutritional content. He also stressed to develop a catalogue of the high nutritional value of indigenous food products to enhance their global acceptability. The College of Agriculture, Pantnagar through its various labs spread across the departments and the experimental farm fields is focused towards the challenges of the future. The College systematically worked to generate vision 2047 for each discipline and also brought up a comprehensive pragmatic plan for upcoming decades to emerge as a Multidisciplinary Education and Research University (MERU) organisation. The issues of sustainability, global warming, upbringing of new varieties, organic and natural farming, bio-control, bio-agents, integrated pest and nutrient management, water and soil conservation, precision farming, protected cultivation, hydroponics, aeroponics etc. have been put to utmost thrust for futuristic development of the farming community. The College of Agriculture, Pantnagar retains the competency of providing pertinent solutions to felt challenges of agriculture at the global level through multi-disciplinary researches and trials under capable supervision of the team of more than 150 researchers, working incessantly in the College premises.

IDP-NAHEP: Continuing the Endeavours of Skilling and Transformations

The College of Agriculture has benefited and transformed in terms of infrastructure, teaching-learning pedagogy and hands-on-training support under IDP-NAHEP project since last two years and the year 2022 emerged as a yet another successful year under the ongoing project. Interactive panels installed under IDP-NAHEP project in all the classrooms of the College have become a common tool of teaching now, teachers as well as students are well acquainted with the use of smart-boards, sharing assignments online, interactive presentations etc. Hi-tech Hydroponics and Aeroponics unit were established in the College last year through the project to provide experiential entrepreneurial skills to the undergraduate students. This year again the second year batch of B.Sc. Agriculture of the College was provided hands-on-

training to work with the advanced technologies wherein they performed stupendously in terms of fetching good harvest from both the units.

In terms of infrastructure development, the IDP-NAHEP project provided financial support in development of Student Wellness and Meditation Center in the College premises. To develop and enhance the higher order cognitive skills of the students and to update them regarding the emerging areas of agricultural technologies, activities were conducted year-round by IDP-NAHEP in terms of guest lectures, interactive sessions, trainings, workshops under the guidance of national as well as international experts. Some of the activities organized under the project have been listed below:

Details of Trainings/Workshops/Guest Lectures/Interactive Sessions organized by IDP-NAHEP, Pantnagar from January 2022 to December 2022:

S.No.	Event	Date
1.	Webinar on Capacity Building and Personality Development: Lessons from Indian Army	January 22, 2022
2.	IDP Writing Studio 5-Days Online Workshop on Efficient Apps to Help Improve Writing Skills	January 23-27, 2022
3.	15 Hours Online Workshop on Microsoft Excel Training: Beginner to Advanced (Excel Formulas & Functions)	January 31-February 11, 2022
4.	Seminar on Exploring Counselling Strategies: The Way to Institution Building	March 12, 2022
5.	Online Workshop on Digital Tools for Impressive Content Creation	March 12-16, 2022
6.	Online 5 Days Workshop on Top E-Learning Resources and their use in Writing Assignments	February 14-18, 2022
7.	30-Hour Online Remedial Crash Course on Agriculture for Aspirants of JRF & Other Competitions	February 16-March 17, 2022
8.	Online 5 Days Workshop on Digital Tools for Impressive Content Creation	March 12-16, 2022
9.	Internship in Field Work	March 21-31, 2022
10.	Online 10 Hours Hands on Workshop in R Studio Programming Basics	March 21-30, 2022
11.	German Language Course Beginners A1 Level (3 Months)	April 4, 2022
12.	French Language Course Beginners A1 Level (3 Months)	April 4, 2022
13.	Pantnagar Museum Quiz	April 13, 2022
14.	Interactive Session on Molecular and Structural Perspectives of Cancer and Radiation Biology	April 21, 2022
15.	Photography Exhibition	April 21, 2022
16.	IDP Writing Studio 5 Days Workshop on How to Write an Excellent Speech: Tenets of Speech Communication	April 27-30, 2022

17.	Internship in Field Work	May 1- July 31, 2022
18.	Webinar on French University Virtual Tour	May 11, 2022
19.	Training on Food Safety: Knowledge, Attitude & Practice	May 13, 2022
20.	Interactive Session on How to Emerge Emotionally Strong	May 16, 2022
21.	IDP Writing Studio 5-Days Online Workshop on Improving Basic Grammar for Error Free Writing	May 17-21, 2022
22.	Interactive Session on Open Educational Resources in Agriculture and Allied Sciences	May 23, 2022
23.	Guest Lecture on Looking at The Spermatozoa Beyond Their Motility	May 26, 2022
24.	French Map Making (Cartography)	May 26, 2022
25.	Interactive Session on Dilemma Or Fomo: Startup Vs. Jobs	May 30, 2022
26.	Experiencing 360 Degree Learning Through VR Headsets	June 4, 2022
27.	Webinar on Career Prospects in Technology Commercialization and Business Incubator Management	June 8, 2022
28.	French And Francophone Film Festival	June 9, 2022
29.	IDP Writing Studio 5 Days Workshop on Working with Words, Grammar, Punctuation and Pronunciation	June 9-13, 2022
30.	Interactive Session on It's All About Marketing	June 10, 2022
31.	Experiencing 360 Degree Learning Through VR Headsets	June 11, 2022
32.	Webinar on Unlocking Nanoparticles Potential in Plant Stress Management	June 11, 2022
33.	Interactive Session on Cracking the Code To MBA	June 15, 2022
34.	Session on Exploring E-Reader: Kindle	June 16, 2022
35.	Guest Lecture on Create Your Own Success Story: Be an Entrepreneur	June 17, 2022
36.	French And Francophone Film Festival	June 23, 2022
37.	Experiencing 360 Degree Learning Through VR Headsets	June 24, 2022
38.	Guest Lecture on Sustainable Farming & Technology	June 27, 2022
39.	Idea Contest-Vision 2040 On University in NEP Era	June 30, 2022
40.	Insightful Guest Lecture on Dairy Cattle Selection, Judging and Body Condition Score	July 07, 2022
41.	Interactive Session on Agri Innovations Undertaken	July 11, 2022
42.	2 Month Offline Internship Programme for Undergraduate Students	July 11-September 11, 2022
43.	Writing Studio on Vocabulary Building	July 12-16, 2022
44.	Workshop on Photo Editing	July 14-20, 2022
45.	Workshop on Microsoft Excel Training	July 18- August 01, 2022
46.	Workshop on Mobile App Development for Agriculture and Allied Sciences	July 25-August 08, 2022
47.	30-Hour Online Remedial Crash Course on Agriculture for Aspirants of JRF & Other Competitions	August 01-30, 2022
48.	Interactive Session on Career Path in Agriculture	August 03, 2022
49.	2 Days National Consultative Workshop on Boosting Research, Academics, Innovation & Networking (Brain)	August 06-07, 2022
50.	Workshop on Fundamental of Programming Language with Python	August 16-22, 2022
51.	IDP Writing Studio Workshop on Gaining Proficiency in Professional Writing Skills: Getting Ready for International Exposure Visit	August 22-26, 2022
52.	Interactive Session with Alumni Executives of UPL Ltd.	August 26, 2022

53.	Interactive Session with Dr. U.S. Singh, Asia Pacific Head, IRRI	August 27, 2022
54.	International Students Exchange Programme to IRRI, Philippines	August 30-September 30, 2022
55.	Webinar on Skills for A Successful Career in Academics	August 31, 2022
56.	Webinar on Financial Planning for College Graduates: A Path Towards Financial Literacy and Better Future	September 08, 2022
57.	Webinar on A Journey of Passion and Perseverance: Entrepreneurial Experiences of Founder Of Simply Natural Foods	September 15, 2022
58.	Guest Lecture on Innovative Technologies for Agribusiness Risk Management	September 21, 2022
59.	5 Days Workshop on Learn to Design and Defend Your Resume	September 26-30, 2022
60.	Online Interactive Session on Unconventional and Lucrative Career Options	September 24-25, 2022
61.	Pantnagar Museum Quiz	September 30, 2022
62.	Experiencing 360 Learning Through VR Headsets	October 07, 2022
63.	5 Days Workshop on Professional Writing Etiquettes for Academic Purposes	October 09-13, 2022
64.	Interactive Session on International Opportunities for Higher Education and Foreign Internships	October 15, 2022
65.	Guest Lecture on Science for Common Good	October 16, 2022
66.	An Interactive Session on General Agriculture	November 03, 2022
67.	Workshop on Out-Of-The-Box Thinking	November 09, 2022
68.	Workshop on Citizenship and Youth	November 13, 2022
69.	Know Your University Quiz	November 14, 2022
70.	Interactive Session on Career in Banking and Finance: Experiences of An RBI Officer	November 21, 2022
71.	Workshop on Appropriate Word Usage for Brilliant Writing	November 23-27, 2022
72.	An Interactive Session on General Agriculture	November 26, 2022
73.	Interactive Session with A Successful Entrepreneur: Journey of A Pantnagar Alumnus	November 30, 2022
74.	Interactive Session on The Message of Karma in Srimad Bhagwat Geeta	December 03, 2022
75.	Career Opportunities and Financial Awareness Drive of Reserve Bank of India	December 05, 2022
76.	3 Days Workshop on Mentoring Students to Enhance the Acting Skills	December 07-09, 2022
77.	5 Days Workshop on How to Write Research-Based Articles: The Art of Content Building	December 07-11, 2022
78.	Online Lecture on Innovations in Adaptation to Climate Change in Dryland Agriculture	December 16, 2022
79.	Interactive Session on Strategy to Crack UPSC Exams	December 17, 2022
80.	Workshop on What Next after CAT Results? Possibilities and Preparations	December 24, 2022
81.	Online Lecture on Sustainable and Resilient Food Systems	December 28, 2022

Department of Agricultural Communication



Dr. V. L. V. Kameshwari
Head

The genesis of Agricultural Communication department held under the Centre of Advanced Studies in Agricultural Communication (CASAC) in collaboration with Food and Agriculture Organization (FAO), the United Nations Development Programme (UNDP) and the Indian Council of Agricultural Research (ICAR).

Department: Genesis with Vision and Mission

The Department of Agricultural Communication has achieved many landmarks since its inception in 1980. The department has been engaged in teaching and applied research through its academic programmes and need-based research activities. The department was created under the Centre of Advanced Studies in Agricultural Communication (CASAC), one of its kind initiatives in the field, in collaboration with Food and Agriculture Organization (FAO), the United Nations Development Programme (UNDP) and the Indian Council of Agricultural Research (ICAR). CASAC had specific objectives of developing academic programmes to produce skilled professionals, providing in-service training to media and extension professionals and creating infrastructure for providing development support communication to different segments of the University for promoting effective teaching, training and extension. The academic curriculum of both M.Sc. and Ph.D. programs was developed in consultation with renowned foreign consultants. The faculty members were trained in educational technology, speech communication, distance learning, video & television production, information management and documentation, communication research, and agricultural journalism, at well-reputed foreign institutes/universities; namely Syracuse University, University of Cornell, BBC (London), University of Philippines, University of Wisconsin, etc. The

postgraduate programme was started in the year 1981 and Ph.D. programme was started in the year 1992. The title of the degree programmes of the department was changed from Agricultural Communication to Development Communication in 1994. As per the directives of the ICAR regarding uniform curriculum, the department again restructured the course content and changed the degree title of its Master's and Ph.D. programs to Agricultural Extension and Communication in the year 2005.

Vision

Department endeavours to make significant contribution in preparing highly skilled and efficient academicians in the field of Agricultural Extension and Communication to meet the future demands of the country

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.

List of Faculty Members

Team spirit of the faculty members of the department is a pivotal factor which is a major strength. Presently the department has following faculty with expertise in various areas of agricultural communication:

S. No.	Name of Faculty Member	Designation	Specialization
1.	Dr. S. K. Kashyap	Dean	Agriculture Journalism, Extension Education, Community Radio
2.	Dr. V.L.V. Kameswari	Professor & Head	Television Production
3.	Dr. M.A. Ansari	Professor	ICT applications in Agriculture & Rural Development sector, Climate Change & Agriculture, Development Communication
4.	Dr. Amardeep	Associate Professor	Educational Technology, Video Production
5.	Dr. Arpita Sharma Kandpal	Assistant Professor	Gender Issues in Agriculture Extension
6.	Dr. Kiran Rana	Assistant Professor	ICTs in Extension

Research projects running in the Department

S.No.	Project Title	Sponsoring Agency	P.I. & Co-P.I.
1.	Enhancing livelihood opportunities of the farming community in mid-hills of Uttarakhand under the Farmer First Scheme	ICAR	Dr. S. K. Kashyap (P.I.) Dr. Aman Kamboj (Co-P.I.) Dr. Anil Kumar (Co-P.I.) Dr. Lalit Bhatt (Co-P.I.) Dr. Arpita Sharma Kandpal (Co-P.I.) Dr. Kiran Rana (Co-P.I.)

Programmes running in the department

S.No.	Name of the Program	Number of Seats		
		Uttarakhand Domicile	ICAR	Total
1	Ph.D. (Agril Extension & Communication)	04	01	05
2	M.Sc. (Agril Extension & Communication)	08	02	10

Salient achievements of the Department

- Ms. Pooja Karki received UCOST Young Scientist Award
- Mr. Abhishek Pathak qualified UGC-Net 2021 and received UCOST Young Scientist Award
- Ms. Gargi Paliwal qualified ICAR-Net 2021
- Mr. Sravan Kumar qualified ICAR-Net 2021
- Ms. Drishtika Jairu qualified ICAR-Net 2021
- Ms. Pratiksha Singh received Best Paper Presentation award at ISEE, BHU- 2021
- Ms. Pooja Goswami qualified UGC-Net 2022
- Ms. Kanika Pandey qualified UGC-Net 2022
- Ms. Priyanka Ginwal received Best Paper Presentation award at ISEE, BHU- 2021
- Mr. Pratyush Kumar Dash qualified ICAR-Net 2021
- Ms. Monika Kholiya qualified UGC-Net 2021

Student Placement

S. No.	Name	Program	Designation	Organization
1	Dr. Sandeep Kaur	Ph.D.	MANAGE Fellow	National Institute of Agricultural Extension Management, Hyderabad
2	Dr. Usha Das	Ph.D.	MANAGE Fellow	National Institute of Agricultural Extension Management, Hyderabad
3	Dr. Arpit Huria	Ph.D.	Research Associate (Agriculture Science)	Defense Institute of High Altitude Research (DIHAR)- DRDO, Leh, Ladakh
4	Dr. Smriti Singh	Ph.D.	Assistant Professor	SAGE University, Bhopal
5	Dr. Neha Sharma	Ph.D.	Assistant Professor	Teerthankar Mahavir University, Moradabad
6	Dr. Neelam Basera	Ph.D.	Assistant Professor	Graphic Era University, Dehradun
7	Dr. Pratima Rana	Ph.D.	Assistant Professor	Y.S. Parmar University of Horticulture and Forestry, Solan
8	Dr. Anmol Panda	Ph.D.	Assistant Professor	Gandhi Institute of Engineering and Technology University, Rayagada
9	Dr. Pragya Goswami	Ph.D.	Post Doctoral Fellow, NAHEP	G.B. Pant University of Agriculture & Technology, Pantnagar
10	Dr. Deepti Kothari	Ph.D.	Subject Matter Specialist	Krishi Vigyan Kendra, Chamoli
11	Dr. Tannishtha Bardhan	Ph.D.	Young Professional	Division of Agricultural Extension, Krishi Anusandhan Bhavan, New Delhi
12	Ms. Kawita Bhatt	Ph.D. (Cont.)	Subject Matter Specialist	Krishi Vigyan Kendra, Saharanpur
13	Ms. Gayatri	Ph.D. (Cont.)	Assistant Horticulture Officer	Govt. of Uttarakhand
14	Ms. Afreen Malik	Ph.D. (Cont.)	Assistant Agriculture Officer	Govt. of Uttarakhand
15	Mr. Rahul Negi	M.Sc.	Assistant Agriculture Officer	Govt. of Uttarakhand
16	Ms. Monika Negi	M.Sc.	Field Level Coordinator	Himmothan Society, Dehradun

Infrastructure Development in 2022

The Department of Agricultural Communication strengthened its facilities by adding infrastructure and equipment to support instruction at UG, PG and Ph.D. levels. Photography and video equipment have been purchased for hands-on training of students. An instructional media lab has been developed to provide necessary skills to students.

Faculty retired in 2022

- Dr. Neelam Bhardwaj, Professor and Head, Agricultural Communication
- Dr. Gyanendra Sharma, Professor, Agricultural Communication



Quiz in progress



Celebrating victory after a friendly cricket match



M.Sc. and Ph.D. students of the department

Department of Agricultural Economics



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.

Department: Genesis with Vision and Mission

The Department of Agricultural Economics, College of Agriculture came into existence in the year 1960 with the onset of the university itself. Initially, it used to offer undergraduate courses only. The Masters' programme was started in 1963 followed by Ph.D. 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 and it successfully continued upto 1992. In the last 61 years of its existence, the department has built up expertise in almost all the major fields of Agricultural Economics. The Department has pride of producing 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

The department aims 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 three core activities of teaching, research and extension which constitute the integrated system of agricultural 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 and 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 and training activities of the university.
- To provide comments/opinion on policy issues and research, and field-based information to government and other development departments.

List of Faculty Members

The department is blessed with qualified faculty members with expertise in various areas of Agricultural Economics. Team spirit of the faculty members of the department is a pivotal factor which is a major strength of the department. Presently the department has following faculty members:

S. No.	Name of Faculty Member	Designation	Specialization
1.	Dr. H. N. Singh	Professor & Head	Farm Management and Production Economics
2.	Dr. Anil Kumar	Professor	Agricultural Marketing
3.	Dr. Virendra Singh	Professor	Farm Management
4.	Dr. S. K. Srivastava	Professor	Farm Management and Production Economics
5.	Dr. Chandra Dev	Associate Professor	Farm Management
6.	Dr. Shweta Chaudhary	Assistant Professor	Farm Management, Production Economics & IPR
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 2022, following research projects were in operation:

S. No.	Project Title	Sponsoring Agency	P.I & Co-P.I.
1.	Stress tolerant rice for poor farmers in South Asia & Africa	IRRI, Philippines	Dr. H. N. Singh (P.I)
2.	Impact assessment of chain-linked farm fencing and farm machinery bank in Uttarakhand	UGVS-IFAD, Govt. of Uttarakhand	Dr. H. N. Singh (P.I) Dr. S.K. Srivastava (Co-P.I) Dr. R.M. Srivastava (Co-P.I)

Programmes Running in the Department

There are two Post Graduate Degree programmes being offered by the Department:

S. No.	Degree	No. of Seats		Total
		Uttarakhand domicile	ICAR	
1.	M.Sc. Agricultural Economics	08	02	10
2.	Ph.D. Agricultural Economics	03	01	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

Faculty achievements

- Department Publications
 - Research papers: 14
 - Books: 01
 - Articles: 03
 - Book Chapter: 04
- Conference/workshop/webinars/winter schools/MOOCs attended: 04
- Lecture delivered by the faculty members in conference/training: 05

Students Achievements

- Ms. Bhumika Giri Goswami, Id. No. 44385 joined as Assistant Agricultural Officer (AAO), Jageshwar Range, Almora w.e.f. 01 January 2022.

- Ms. Shefali Srivastava, Id. No. 43701 did a three-month internship with International Food Policy Research Institute, New Delhi (IFPRI), worked on the project, 'Cereal Systems Initiative for South Asia (CSISA)' (01 July 2022 to 30 September, 2022)
- Ms. Shefali Srivastava, Id. No. 43701 (Ph.D. student) delivered a Guest Lecture on "Adoption of Crop Insurance: Behavioral Biases and Possible nudges" on 8th October, 2022 organized by Jindal School of Environment and Sustainability, O.P. Jindal Global University, Delhi NCR.

Awards/Fellowship earned by faculty members 2022

International Society for Noni Science (ISNS), Chennai, awarded a fellowship to Dr. H.N. Singh, Prof. & Head, Agricultural Economics for the year 2022 during a one-day National seminar on 'NONI & WELLNESS' on 31 May, 2022.

Faculty retired in 2022

- Dr. M.L. Sharma, Professor, Agricultural Economics



Facilitation programme



Kisan mela



Fresher's welcome -2022 at B.B. Singh Auditorium

Department of Agrometeorology



Dr. R. K. Singh
Head

The department is striving to support the farmers of Uttarakhand by providing advisory services and continuously taking up research projects related to Agrometeorology, Weather forecasting, Remote Sensing and GIS for devising the methodologies/techniques for sustainable agriculture production and precision crop management.

Department: Genesis with Vision and Mission

Considering the significance of weather and climate and their influence on crop growth, development and yields, the Department of Agrometeorology came into existence in the year 2000 after the bifurcation of the Department of Soil Science. Until the inception of the department, teaching, research and extension activities pertaining to Agrometeorology were carried out within the Department of Soil Science. The M.Sc. programme in Agrometeorology was initiated in 1995, while Ph.D. programme started in 2000. Research thrust in Agrometeorology includes climatic characterization of the hill and plain zones of Uttarakhand, crop-weather relationships, application of weather-driven dynamic crop growth and yield simulation models, weather-crop-insects/disease interactions, climate change and its effects on crop productivity, evapotranspiration, suitability analysis using Remote Sensing and GIS etc.

Department is imparting education to UG, PG and Ph.D. students related to the application of meteorology in Agriculture. Department is continuously taking up research projects related to Agrometeorology, Weather forecasting, Remote Sensing and GIS for

devising the methodologies/techniques for sustainable Agriculture production and precision crop management. The main aim of Agromet advisory services (AAS) under GKMS is to gather information on weather and climate, soil-related information, and crop-based knowledge and combine them with the weather forecast in order to provide farmers with the vision to manage their decision, which ultimately would bring maximum productivity with minimum losses.

Vision

To develop the department of Agrometeorology 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, Climate Smart Agriculture, Robotics in Agriculture, Agri-Informatics, Climate Change and its impact on Agriculture and Mitigation Measures, Geospatial technologies, their uses in agriculture and sustainable natural resources management.

To provide Agromet advisory services based on medium-range weather forecasts to the farmers of all districts of Uttarakhand through the District Agromet Unit (DAMU) at KVKs.

To develop a 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.

Mission

- To run the Postgraduate programme (M.Sc. Ag. and Ph.D.) in the field of Agrometeorology.
- To actively contribute to the undergraduate programme (B.Sc. Ag (Hons.) of the college.
- Weather observation, database creation and data 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 work for the upliftment of the university and society.

Mandate

Teaching

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

Research

- To conduct quality research in the crop-weather relationship, crop simulation modelling, climate change, weather-based agromet advisory services, remote sensing and GIS applications in agriculture for enhancing farm productivity and precision farming.
- To study climate change and its effect on crop productivity, modifications to alleviate environmental stress, evapotranspiration and water requirements of important crops.
- To prepare a contingent crop plan for all the districts of Uttarakhand.

Extension

Medium-Range Weather Forecasts for five days are being received biweekly (Tuesday and Friday) for Udham Singh Nagar and Nainital districts from India Meteorological Department, Pune in collaboration with Meteorological Centre, Dehradun which provides the value-added forecasts. Integrated Agromet Advisory Bulletins in English and Hindi are being prepared based on the medium-range weather forecast through Agromet DSS (agromet.imd.gov.in) and output of the Normalized Difference Vegetation Index (NDVI) and Standardized Precipitation Index (SPI) map obtained from India Meteorological Department, Pune is also incorporated in the agromet bulletin and sent to IMD, Pune & MC, Dehradun for preparing national and state Agromet Advisory Bulletins respectively. Agromet Advisory Bulletins are also distributed to local newspapers for publication, NGO, progressive farmers of the region through Email and uploaded on the University website (<http://www.gbpuat.ac.in>) as well as on IMD website with SMS (<http://www.imdagrimet.gov.in>) regularly. SMSs regarding future weather and plant protection measures are also being sent twice a week to about 85,000 farmers from Districts of Nainital and Udham Singh Nagar 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. There are now two Agromet Advisory Service Groups called Krishi Mausam Seva in U.S. Nagar and Krishi Mausam Seva in Nainital. The service is run through a WhatsApp group in which between 150 and 249 farmers and subject-matter specialists are now connected. Farmers received weather forecasts and Agromet Advisory Bulletins through these groups. Recently various Whatsapp groups for different blocks of Udham Singh Nagar were created in which around 1943 farmers and different farm workers are linked.

List of Faculty Members

Presently the department has following faculty members:

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

Research Projects Running in the Department

S.No.	Name of Project	Sponsoring Agency	PI & Co-PI
1.	GKMS	IMD, New Delhi	Dr. R.K.Singh (P.I)
2.	FASAL	IMD, New Delhi	Dr. A.S.Nain (P.I)
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 (P.I) Dr. Rajeev Ranjan (Co-P.I)
4.	Drone Research and Development Grant	Bio-efficacy projects	Dr. A.S.Nain (P.I) Dr. Rajeev Ranjan (Co-P.I)

Programmes Running in the Department

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

Salient Achievements of the Department

Faculty Achievements

- Faculty from the department of Agro meteorology attended 06 conferences
- Dr. Rajeev Ranjan organized a guest lecture by Dr. Laetitia Willocquet, Scientist, INRAE, France on the topic Crop Growth Modelling on October 15, 2022.
- Dr. Rajeev Ranjan, Assistant Professor organized coaching classes and conducted exam for ICAR-ARS examination for PG students of the department.

Students Achievements

- Ms. Shweta Pokhariyal, Id No. 50946 Ph. D student and Dr. Parul Setiya, SRF, Agrometeorology received the Young Scientist Award-2022 in the Category I & II at the Oral Presentation (Agricultural Sciences)

organized at 15th Uttarakhand State Science and Technology Congress 2020-2022 during 22-24 June 2022 organized by UCOST and Graphic Era, Dehradun.

- Ms. Subhika Goel, Id No. 55416 was awarded 1st Prize for Poster Presentation at National Conference on "Managing Weather and Climate Risks in Agriculture- Adopting Crops to Climate Variability and Uncertainty held from 24-26 March 2022 at SKUAST, Kashmir.
- Dr. Jaya Dhami, Technical Officer GKMS, Agrometeorology, was selected as Scientist-D in IMD, New Delhi.
- Ms. Priyanka Swami, Id No. 49642 selected as Assistant Professor at Agriculture University Jodhpur, Rajasthan.
- Mr. Arjun Shreepad Hegde, Id No. 56919 qualified for UGC JRF and eligibility for Assistant Professor in UGC NET.

- Mr. Arjun Shreepad Hegde, Id No. 56919 qualified for ICAR SRF in the discipline of Agricultural Physics for admission in PhD at IARI, New Delhi.

ICAR NET Selections: 07

Qualified for ICAR ARS main exam: Ms. Priyanka Swami, Id No. 49642 and Mrs. Sonam qualified ICAR-ARS main exam in the discipline of Agrometeorology for the year 2022.

Guest Lectures delivered

- Dr. R.K. Singh, Professor & Head, Agrometeorology delivered a lecture during winter school organized by the Department of Agronomy, GBPUAT, Pantnagar.
- Dr. Rajeev Ranjan, Assistant Professor, Agrometeorology delivered a lecture on ICAR-sponsored training on “Advances in Plant Disease Diagnostic and Forecasting Tools” organized by the Department of Plant Pathology, GBPUAT, Pantnagar.

Research Papers Published: 06 (>6.0 NASS rating:02)

Research papers published in proceedings: 01

Popular articles published: 04



One day Farmers’ Awareness Programme (FAP)



Visit of scientists at Lysimeter unit set up at the Norman E. Borlaug Crop Research Center, Pantnagar



A lecture delivered by Dr. Laetitia Willocquet, Scientist, INRAE, France on April 5, 2022

Department of Agronomy



Dr. M.S. Pal
Head

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.

Department: Genesis with Mission and Vision

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

Vision

A centre with unparalleled knowledge domain through cutting-edge basic and applied research with innovative teachings to generate sustainable and 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 the field of agriculture
- Developing/modifying curricula according to the 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

List of Faculty Members

Presently the department has following faculty members:

S. No.	Name of Faculty Member	Designation	Specialization
1.	Dr. M.S. Pal	Professor and Head	Maize, oilseed & forage agronomy, Irrigation water & nutrient management
2.	Dr. Virendra P. Singh	Professor	Weed control and RCTs
3.	Dr. Subhash Chandra	Chief Scientist	Water management, integrated Farming System
4.	Dr. Rohitashav Singh	Professor	Weed management in crop & cropping system, integrated farming system & agronomy of forage crops
5.	Dr. Anil Shukla	Professor	Rapeseed & mustard agronomy and soil fertility
6.	Dr. Sunita T. Pandey	Professor	Medicinal Plant Agronomy, Weed management, Agriculture heritage, Vrikshayurveda
7.	Dr. V.K. Singh	Professor	Cropping system, soil fertility & pulses agronomy
8.	Dr. S.K. Lavania	Professor	Rice and Organic Farming
9.	Dr. D.K. Singh	Professor	Agroforestry/forestry
10.	Dr. M.S. Negi	Professor	Oilseed agronomy and medicinal & aromatic plants agronomy
11.	Dr. Naresh Malik	Professor	Sugarcane & hill agriculture
12.	Dr. Tej Pratap	Senior Research Officer	Weed management, hill agriculture
13.	Dr. Omvati Verma	Senior Research Officer	Seed production technology, seed physiology, storage & testing
14.	Dr. S.P. Singh	Senior Research Officer	Conservation on agriculture weed management
15.	Dr. Rajeew Kumar	Senior Research Officer	Precision agriculture, nanotechnology and wheat agronomy
16.	Dr. Amit Bhatnagar	Senior Research Officer	Soil Fertility, Nutrition of plants, Nutrient Management
17.	Dr. Gurvinder Singh	Senior Research Officer	Water management crop management
18.	Dr. Dinesh K. Singh	Senior Research Officer	On farm research
19.	Dr. V.C. Dhyani	Associate Professor	Weed and Nutrient Management, Conservation Agriculture, Crop Physiology
20.	Dr. Sumit Chaturvedi	Associate Professor	Climate change viz a viz conservations agriculture, nutrient management, cropping system research
21.	Dr. Kranti Kumar	Assistant Professor	Medicinal and aromatic plants
22.	Dr. D.K. Shukla	Junior Research Officer	Sorghum Agronomy
23.	Dr. Ajay Kumar	Assistant Professor	Soybean agronomy, millets, hill agriculture and soil fertility
24.	Dr. Amit Kesarwani	Assistant Professor	Sustainable Agriculture and wheat agronomy resource conservation technology
25.	Dr. S. K. Yadav	Assistant Professor	Rice and organic farming
26.	Dr. Vineeta Rathore	Assistant Professor	Conservation agriculture, nutrient management & medicinal & aromatic plants

Research Project running in the Department

There are 14 AICRPs, 40 Bioefficacy Projects and 3 Adhoc Projects running in the Department

AICRP Projects

S. No.	Name of Project	Sponsoring Agency	P.I.
1.	AICRP on Wheat and Barley Improvement	ICAR	Dr. Rajeev Kumar
2.	AICRP on Rice	ICAR	Dr. D K Singh
3.	AICRP on Water Management	ICAR	Dr. Gurvinder Singh
4.	AICRP on Soybean	ICAR	Dr. Ajay Kumar
5.	AICRP on Rapeseed & Mustard	ICAR	Dr. M. S. Negi
6.	AICRP MULLaRP	ICAR	Dr. V. K. Singh
7.	AICRP on IFS	ICAR	Dr. Rohitashv Singh
8.	AICRP on Weed Control	ICAR	Dr. T P Singh
9.	AICRP on Pigeon Pea	ICAR	Dr. V K Singh
10.	AICRP on Forage Crops	ICAR	Dr. M S Pal
11.	AICRP on chickpea	ICAR	Dr. V K Singh
12.	AICRP on NSP (Crops) Seed Technology Research	ICAR	Dr. Omvati Verma
13.	AICRP on Maize	ICAR	Dr. Amit Bhatnagar
14.	Network project on Organic Farming	ICAR	Dr. D K Singh

Ad hoc projects

S.No.	Name of Project	Sponsoring Agency	P.I. & Co-P.I.
1.	Fund for Improvement of Science & Technology Infrastructure (FIST)	DST	Dr. M S Pal (P.I.) Dr. Sumit Chaturvedi (Co-P.I.) Dr. V C Dhyani (Co-P.I.)
2.	Development of Steel Slag based Cost Effective Eco-Friendly Fertilizers for Sustainable Agriculture and Inclusive Growth	Ministry of Steel, GOI	Dr. Rajeev Kumar (P.I.) Dr. V C Dhyani
3.	Export standards, guidelines & promotion for Natural Agriculture Products	Agricultural and Processed Food Products Export Development Authority, (Ministry of Commerce & Industry, Govt. of India)	Dr. Sunita T Pandey (P.I.)
4.	Exploring Livelihood Potential of Wild Growing Stinging Nettle (<i>Urticadioica</i>) in Uttarakhand	National Mission on Himalayan Studies	Dr. Sunita T Pandey (Co-P.I.)
5.	Introduction and integration of stinging nettle-based liquid fermented organic Vrikshayurveda concoction on various selected crops of district Almora	Ministry of Environment, Forest and Climate Change Government of India under National Mission on Himalayan Studies (NMHS)	Dr. Sunita T Pandey (P.I.)

Programme 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.

S. No.	Degree	No. of Seats		Total
		Uttarakhand domicile	ICAR	
1.	M.Sc. Ag. Agronomy	10	10	20
2.	Ph.D. Ag. Agronomy	05	05	10

Salient Achievements

Publications

S.No.	Particulars	Number of Publications
1	Research papers >6 NAAS rating	08
2	Research papers in Journals	34
3	Popular Articles	6
4	Book Chapter	1
5	Radio Talks	10

Student Achievements

- Aastika Pandey , ID No. 52945, qualified JRF and secured second rank (2022)
- Akarsha Raj, qualified ICAR-NET and secured rank 39 (2022)
- Anjali Mehta, qualified SRF, and secured rank 13 (2022)
- Mr. S K Asraful Ali got selected in ICAR-SRF (2022)
- Avinash Chauhan, ID No. 35717 (Ph D student) joined as SMS (Agronomy) in SVBP Univ. of Agric & Tech, Meerut (UP).

Faculty Achievements

National awards/fellowships earned by the faculty in the year 2022

- 'Best Centre Award to AICRP-Weed Control in 2022.'
- Dr. V.C. Dhyani, Dr. Sumit Chaturvedi and Dr. Rajeev Kumar, serving as Associate Professor, Agronomy

got selected for Advance Learning Programme (One Month) in USA under IDP-NAHEP (2022).

Infrastructure Development in 2022

- Computer Lab
- Renovation of PCP
- Renovation of Crop Physiology Lab in the Department of Agronomy and CRC.
- Renovation of Corridor of first wing of Agronomy
- Improvement in Wheat Lab at CRC

Other Remarkable Development/Contributions by the Department

- **21 days CAFT Training organized:** 21 days CAFT training on 'Food security and soil health management through agronomic interventions' was organized successfully from 02 to 22 November, 2022 in Department of Agronomy.

Faculty retired in 2022

Dr. Virendra P. Singh, Professor



Golden Jubilee Forage Garden at IDF, Nagla



CAFT Training (02 to 22 Nov.2022)

Department of Entomology



Dr. Pramod Mall
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.

Department: Genesis with Mission and Vision

Department of Entomology was established in 1964 to impart teaching to undergraduate students of B.Sc.(Ag.) in addition to research on various crops and extension of crop protection technology to farmers. M.Sc. (Ag.) Entomology and Ph.D. programs were started in 1970 and 1979, respectively, to expand the department's activity in postgraduate teaching and advanced research in various fields of Entomology. Presently Department of Entomology is admitting 12 M.Sc. (Ag.) and 6 Ph.D. students and offering more than 37 courses for undergraduate and postgraduate students. It has developed advanced crop protection technology 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 crop. The students and faculty of the department are doing research in almost all fields of Agricultural Entomology and planning to move towards the establishment of the Centre of Advanced Studies in Entomology in the near future for which the department has upgraded all the classrooms, undergraduate, post graduate and research laboratories by replacing old infrastructure.

Mission

The mission of the department is to pursue advance scientific knowledge in the field of entomology and to disseminate this worthwhile knowledge through publications, teaching and service in different sectors.

Mandate

- Evolving professionals in the chosen field of entomology
- To develop expertise through inculcating concepts, theories and emerging methods of entomology in a bid to become worthy scientists or teachers.
- Adequate and effective guidance to become independent self-motivated researchers and also enabling them to diagnose the problems in the field and resolve them on the basis of knowledge achieved during the course of study.
- Develop adroitness to become entrepreneurs and job seekers.
- To prepare students to be effective scientists and practitioners in entomology.
- To establish a highly successful graduate program with a national and international reputation.

List of Faculty Members

Presently the department has following faculty members:

S.No.	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, IPM, Veg. Entomology
4.	Dr. R.M. Srivastava	Professor	Vegetable Entomology, Molecular Entomology
5.	Dr. Poonam Srivastava	Associate Professor	Horticulture Entomology, Sericulture
6.	Dr. Ruchira Tiwari	Associate Professor	Natural Beekeeping, IPM, Storage Entomology, Wheat and Pulse Entomology
7.	Dr. Neeta Gaur	Associate Professor	Soybean Entomology
8.	Dr. Meena Agnihotri	Associate Professor	Taxonomy, Pulse Entomology, IPM
9.	Dr. J. P. Purwar	Associate Professor	Pulse Entomology, Toxicology/ Nano Technology
10.	Dr. R.P. Maurya	Assistant Professor	Bio control, IPM, Sorghum
11.	Dr. Renu Pandey	Assistant Professor	IPM, Insect Pathology, Bee Pathology

Research Projects running in the Department

All India Coordinated Research Projects

S.No.	Name of the Project	Sponsoring Agency	Name of PI/Co-PI
1.	AICRP on Honey bees & Pollinators	ICAR	Dr. Pramod Mall, P.I.
2.	AICRP on Mustard & Rapeseed	ICAR	Dr. M. S. Khan, P.I.
3.	AICRP on Rice	ICAR	Dr. A. K. Pandey, P.I.
4.	AICRP on Potato	ICAR	Dr. R. M. Srivastava
5.	AICRP on Subtropical Fruits	ICAR	Dr. Poonam Srivastava, P.I.
6.	AICRP on Pigeonpea	ICAR	Dr. Ruchira Tiwari, Overall P.I. (Pulse)
7.	AICRP on Soybean	ICAR	Dr. Neeta Gaur, P.I. Dr Renu Pandey, Co-P.I.
8.	AICRP on Chickpea	ICAR	Dr. Meena Agnihotri, P.I.

9.	AICRP on MULLaRP	ICAR	Dr. J. P. Purwar, P.I.
10.	AICRP on Biological control	ICAR	Dr. R. P. Maurya, Co-P.I.
11.	AICRP on Sorghum	ICAR	Dr. R. P. Maurya, P.I.

Ad-hoc Projects

International Projects

S.No.	Name of the project	Sponsoring agency	P.I./Co-P.I.
1.	SUPER Farm India- Sustainable farming through effective pollination and pest regulation in India	University of Reading	Dr. Pramod Mall, P.I. Dr. Renu Pandey, Co-P.I.

National Projects

S.No.	Name of the project	Sponsoring agency	P.I./Co-P.I.
1.	Establishment of Integrated Beekeeping and development centre	National Bee Board, New Delhi	Dr. Pramod Mall, P.I. Dr. J. P. Purwar, Co-P.I. Dr. Renu Pandey, Co-P.I.
2.	Women empowerment through beekeeping entrepreneurship development for sustained income generation	FMC, India	Dr. Pramod Mall, P.I. Dr. J. P. Purwar, Co-P.I. Dr. Renu Pandey, Co-P.I.
3.	Setting of quality control laboratory for bee products	NBHM Ministry of Ag., New Delhi	Dr. Pramod Mall, P.I. Dr. J. P. Purwar, Co-P.I. Dr. Renu Pandey, Co-P.I.
4.	Setting of honey bee disease and diagnosis laboratory	NBHM Ministry of Ag., New Delhi	Dr. Renu Pandey, P.I. Dr. Pramod Mall, Co-P.I. Dr. J. P. Purwar, Co-P.I.
5.	National Seminar on awareness on beekeeping	NBHM Ministry of Ag., New Delhi	Dr. Pramod Mall, P.I. Dr. J. P. Purwar, Co-P.I. Dr. Renu. Pandey, Co-P.I.
6.	Bee-flora Plantation at IBDC Pantnagar for promotion of beekeeping and enhancing biodiversity in Himalayan Region	NBHM Ministry of Ag., New Delhi	Dr. Pramod Mall, P.I. Dr. J.P. Purwar, Co-P.I. Dr. Renu Pandey, Co-P.I.
7.	Molecular characterization of whitefly fauna in Uttarakhand and implementation of bio intensive pest management practices in Tomato	Uttarakhand council of Biotechnology	Dr. R. M. Srivastava Dr. B. R. Singh

Programme running in the department

S. N.o	Programme	No. Students Admitted		Total
		Uttarakhand Domicile	ICAR/other state	
1.	M.Sc.(Ag.)Entomology	08	04	12
2.	Ph. D.	05	01	06
3.	Certificate Courses on Mass Production of Important Bio-control Agents	30-40		
4.	Certificate Courses on Apiculture	40-50		
5.	Certificate Courses on Sericulture	20-25		

Salient Achievements of the Department

Faculty Achievements

- Conducted bioefficacy trials on various crops, vegetables, and fruits funded by agrochemical companies.
- Exploration of biochemical and physical analysis of natural bee propolis and its medicinal properties.
- Studied the diversity and characterization of syrphid flies and their role as beneficial insects.
- Species profiling of white grub in different locations of Pantnagar.
- Developed nanoformulation and fabricated light trap for the management of vegetable crops.
- Two monographs on “Insect and mite pests of Mango in India” and “Litchi pollination and pollinators” and also organized Mango day.
- Screening of soybean germplasms against *Spodoptera litura* (Fab.) for the expression of antixenosis resistance through seasonal incidence and dual -feeding assay.
- Explored 62 species of moths of family Thyridid from 13 states of India.
- Biosynthesis of ZnO nanoparticles and their synergistic effect with entomopathogens, *Beauveria bassiana* and

Bacillus thuringiensis against *Spodoptera litura* in green gram.

- Developed the Ecological engineering-based pest management in the cabbage crop ecosystem.
- Recorded entomopathogenic fungi *Clonostachys rosea* in Mango hopper.

Research Papers: 31

Book: 3

Popular Articles: 7

Monograph: 2

Student Achievements:

- A total of 14 students of department qualified NET/ICAR fellowship
- Ten students of the department were placed in Ag/Horticulture department and other respective companies.
- Mr. Chinesh Patel received the best thesis Award 2021-22

Faculty Retired in 2022

- Dr. R. P. Srivastava, Professor

Department of Food Science & Technology



Department: Genesis with Vision and Mission



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.

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 the Department of Dairy Technology and was later named as the 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, the 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 the 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 the 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 a 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 faculty members contributing to the Department of Food Science and Technology. The faculty of the department is from diversified specializations and have immense potential and experience in various areas related to Food Processing.

S. No.	Name	Designation	Specialization
1.	Dr. S.K. Sharma	Professor	Fruit and Vegetable Technology, Food Safety, Entrepreneurship Development
2.	Dr. Anil Kumar	Junior Research Officer	Dairy Technology, 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

Research projects running in the Department

S. No.	Title	Sponsoring Agency	P.I./Co-P.I.
New Projects Sanctioned in the Department			
1.	Testing of Bioefficacy of Ethephon 13% WP on Mango and Banana as Post-harvest Artificial Ripening under Controlled condition	JP Enterprises	Dr. S.K. Sharma P.I. cum CEO Dr. Anil Kumar Co-P.I. cum Assoc.-CEO
Projects Already Running in the Department			
2.	Undertaking Capacity Building Programme of Prime Ministers Formalization of Micro Food Enterprises (PMFME) Scheme as State level Technical Institution (SLTI) for Uttarakhand	Ministry of Food Processing Industry, GOI - PMFME Scheme	P.I. & Nodal Officer: Dr. S. K. Sharma Co-P.I.: Dr. P. Prabhakaran, CVAS Co-P.I.: Dr. Archana Kushwaha, CHSc Co-P.I.: Dr. Vipul Gupta, CFSc Co-P.I.: Dr. Anil Kumar, FST, CoA Co-P.I.: Dr. Sweta Rai, FST, CoA Co-P.I.: Dr. Sabbu Sangeeta, FST, CoA
3.	Food Processing Incubation cum Skill Development centre (PMFME)	Ministry of Food Processing Industry, GOI	Dr. S. K. Sharma P.I. cum CEO Dr. Anil Kumar Co-P.I. cum Assoc.-CEO

Programmes running in the department

S.No.	Name of the Program	Number of Seats		
		Uttarakhand Domicile	ICAR	Total
1.	Ph.D. Food Technology	03	01	04
2.	M.Sc. Food Technology	05	01	06
3.	B.Sc. Food Technology	30	05	35
4.	B.Tech. Food Technology	30	05	35
5.	Three months online certificate course in Processing of Fruits, Vegetables and Spices	Variable	Variable	Variable

Salient achievements of the Department

New Technologies Developed in 2022

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.

S.No.	Technology title	Inventors
1.	Standardization of technology for enzymatic extraction of tamarind pulp and its drying to prepare effervescent beverage tablet	Shivani Bisht, Sabbu Sangeeta, S. K. Sharma, N.C. Shahi
2.	Development of functional milk candy with the incorporation of arjuna bark, turmeric & black pepper	Astha Balodhi, S. K. Arora, S. K. Sharma, P. K. Singh, Ravindra Kumar
3.	Improvement of nutritional and textural properties of Okara incorporated cookies using hydrocolloids	Vinay Balodi, Sweta Rai, S. K. Sharma, Anil Kumar, Sabbu Sangeeta

Publications in 2022

The faculty and students of Department of Food Science and Technology published many research papers out of which two papers were published in Thomas Reuters

rated and journals with NAAS rating above 6.0. Besides, many chapters and other articles were also published.

Special Recognition in 2022

- Dr. S. K. Sharma is member in Scientific Panel on Fruits & Vegetable Product and their Products in FSSAI.
- Dr. Anil Kumar is member in Scientific Panel on Labelling and Claims/Advertisements in FSSAI.
- Department won 1st prize in Model Exhibit prepared by the students in Kisan Mela organized in October, 2022.
- Dr. S. K. Sharma and Dr. Anil Kumar were certified as Master Trainers EDP.
- Department of Food Science and Technology was recognized as State Level Technical Institution under Prime Ministers Formalization of Micro Food Enterprises, Scheme of the MOFPI, Govt. of India.
- Dr Sabbu Sangeeta, Assistant Professor, was certified as Master Trainer for Spices Processing and Processing of Fruits and Vegetables by Ministry of Food Processing Industry, GOI, for implementation of PMFME Scheme
- Dr Anil Kumar, was certified as Master Trainer for Dairy Processing by Ministry of Food Processing Industry, GOI, for implementation of PMFME Scheme
- Dr Sweta Rai, Assistant Professor was certified as Master Trainer for Cereals and Grains Processing by Ministry of Food Processing Industry, GOI, for implementation of PMFME Scheme

Student Achievements

Type of award	No of students receiving awards	Awarding institution
Best Article Awards	04	National Food Magazines / Publications
Dance competitions	03	GBPUAT
Acting competitions	02	GBPUAT
INSPIRE fellowship awarded to Ph.D. students	01	GBPUAT

Infrastructure developed in 2022

Labs of Department of Food Science & Technology were renovated.

Events/activities organised in 2022

The Department successfully organized two trainings as per following details:

Event	Topic	Dates	No. of Participants	Organizers
PMFME DLTs Training	Fruits & Vegetable Domain Training	28-02-2022	15	SLTI, Dept. of Food Science & Technology
PMFME DRPs Training	Non-Food Domain	30-05-2022	11	SLTI, Dept. of Food Science & Technology

Students working in Laboratory and Food Processing Center preparing Food products



Department of Genetics and Plant Breeding



Department: Genesis with Vision and Mission

Inception of the Department of Plant Breeding was held in 1960 with the aim to impart teaching, research and extension in plant breeding (the department was renamed to 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 2021, 264 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 the registration of 3 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 of the country.



Dr. Salil Tiwari
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.

The Department has well-knit undergraduate (U.G.) and postgraduate (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 postgraduate degree programmes. Department has been graced by distinguished faculty, four faculty members have been honoured with NAAS Fellowship. Excellent facilities for the thesis and research for 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 13 All India Coordinated Research Projects (ACRIP) on different crops funded by ICAR and 9 *ad-hoc* projects funded by different funding agencies viz., DBT, DST, ICAR, NBPGR, DAC/PPV&FRA, CGIAR, NOVOD etc. are under implementation.

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 resilience and high quality.

Mission

- To impart quality teaching in Genetics and Plant Breeding related subjects at 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 training and guidance.

Mandate

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

List of Faculty Members

S.No.	Name of Faculty Member	Designation	Specialization
1.	Dr. Salil K. Tewari	Professor & Head	Tree Genetics & Improvement
2.	Dr. A.K. Singh	Professor	Forestry
3.	Dr. Dr. Ravindra Kumar	Professor	Genetics & Plant Breeding, Pulse Breeding
4.	Dr. Dr. J. P. Jaiswal	Professor	Genetics & Plant Breeding, Wheat & Barley Breeding, Plant Biotechnology
5.	Dr. Dr. Indra Deo	Professor	Rice Breeding, Plant Biotechnology and Molecular Genetics
6.	Dr. Dr. S. K. Verma	Professor	Resistance Breeding, Pigeon-Pea Breeding
7.	Dr. Dr. P. S. Shukla (on leave)	Professor	Seed Science & Technology
8.	Dr. Dr. A. S. Jeena	Professor	Sugarcane Breeding, Genetics & Plant Breeding
9.	Dr. Dr. M. K. Nautiyal	Professor	Seed Technology
10.	Dr. Dr. N. K. Singh	Professor	Genetics & Plant Breeding, Maize Breeding, Plant Biotechnology
11.	Dr. Dr. Birendra Prasad	Professor	Forage Breeding and Seed Science & Technology
12.	Dr. Dr. P. K. Singh	Professor	Minor Millets Breeding, Molecular Biology & Biotechnology
13.	Dr. Dr. D.C. Baskheti	Professor	Maize Breeding, Genetics & Plant Breeding
14.	Dr. Dr. M. K. Karanwal	Senior Research Officer	Genetics & Plant Breeding, Soyabean Breeding
15.	Dr. Dr. Swati	Senior Research Officer	Genetics & Plant Breeding, Wheat and Barley Breeding

16.	Dr. Dr. Anil Kumar	Senior Research Officer	Genetics & Plant Breeding, Wheat Quality Breeding
17.	Dr. Dr. Usha Pant	Junior Research Officer	Genetics & Plant Breeding & Rapeseed Mustard Breeding

Research Projects running in the Department

All India Coordinated Research Projects

S.No.	Title	Sponsoring Agency	P.I. / Co-PI
1.	All India Coordinated Project on Wheat & Barley Improvement	ICAR	Dr. J.P. Jaiswal Dr. Swati Dr. Anil Kumar
2.	All India Coordinated Project on Rice Improvement	ICAR	Dr. I.D. Pandey Dr. M.K. Nautiyal Dr. D.C. Baskheti
3.	All India Coordinated Project on Maize Improvement	ICAR	Dr. N.K. Singh
4.	All India Coordinated Project on Rapeseed-Mustard Improvement	ICAR	Dr. Usha Pant
5.	All India Coordinated Project on Soybean Improvement	ICAR	Dr. M.K. Nautiyal Dr. M.K. Karnwal
6.	All India Coordinated Project on Sorghum Improvement	ICAR	Dr. P.K. Pandey
7.	All India Coordinated Project on Forage Crops and Utilization	ICAR	Dr. Birendra Prasad
8.	All India Coordinated Project on Pigeonpea Improvement	ICAR	Dr. R.K. Panwar Dr. S.K. Verma
9.	All India Coordinated Project on Chickpea Improvement	ICAR	Dr. R.K. Panwar Dr. Anju Arora
10.	All India Coordinated Project on MULLaRP Improvement	ICAR	Dr. R.K. Panwar Dr. S.K. Verma
11.	All India Coordinated Project on Sugarcane Improvement	ICAR	Dr. A.S. Jeena
12.	All India Coordinated Project on Seed Technology	ICAR	Dr. M.K. Karnwal

Ongoing Ad-hoc Research Projects

S. No.	Name of the project	Sponsoring agency	P.I.
1.	Pyramiding of Rust Resistance Genes into High Grain Quality Wheat Lines Developed Through Marker-assisted Selection.	DBT, GoI	Dr. J.P. Jaiswal
2.	Development of heat tolerant, high yielding and climate resilient wheat cultivars by utilizing genomics, molecular and physiological information and resources.	BIRAC, DBT	Dr. J.P. Jaiswal
3.	Introduction of improved 60 days Cowpea varieties in India.	CIAT, Calli Colombia	Dr. M. K. Nautiyal
4.	Two line hybrid rice to improve the economy of hill agriculture.	UCB, Uttarakhand	Dr. M. K. Nautiyal
5.	Characterization of chickpea germplasm resource to accelerate genomics-assisted crop improvement	DBT, GoI	Dr. R. K. Pawar / Dr. Anju Arora
6.	Global Rice Array Project	IRRI	Dr. I. D. Pandey
7.	Two Line Hybrid Rice to Improve the Economy of Hill Agriculture	UCOST	Dr. M. K. Nautiyal

Programmes running in the department

S. No.	Name of the Program	No. of seats		Total
		Uttarakhand domicile	ICAR	
1.	M.Sc. Ag (Genetics & Plant Breeding)	12	04	16
2.	Ph.D. Ag.(Genetics & Plant Breeding)	06	02	08

Salient Achievements of the Department

Faculty Achievements

S.No.	Name of Faculty	Fellow / Award / details	Agency
1.	Dr. Salil Tewari	Fellow – Indian Society of Agroforestry-2018. declared in 2022	Indian Society of Agroforestry. ICAR-CAFRI, Jhansi
2.	Dr. J.P. Jaiswal	8 th Dr. V.S. Mathur Memorial Award-2022	Indian Society of Genetics & Plant Breeding, NASC Complex, New Delhi
3.	Dr. J.P. Jaiswal	Dr. S. Radhakrishnan Award for best Teacher/ Researcher 2021-22	Association of Indian Universities (AIU), New Delhi
4.	Dr. J.P. Jaiswal	SAWBAR Fellowship-2022	Society for Advancement of Wheat & Barley Research, ICAR-IIWBR, Karnal, India
5.	Dr. Salil Tewari	Invited as Chief Guest in Training Program on Agroforestry	organized by Institute of Forest Productivity. September 21, 2022
6.	Dr. Salil Tewari	Co-chaired a session in the International conference on Horticulture	at CSAUA&T, Kanpur. May 28-30, 2022
7.	Dr. Salil Tewari	Co-chaired a session in the Annual POLY ₄ Researcher's Conference from at Hyderabad	in collaboration with ICAR- CRIDA, Hyderabad. October 17-18, 2022
8.	Dr. J.P. Jaiswal	Key Note Speaker on VII Rao Bahadur Dr Ram Dhan Singh Memorial Lecture	CCS HAU, Hisar, May 9, 2022 on the occasion of Amrit Mahotsava.
9.	Dr. J.P. Jaiswal	Member of the Expert Working on Global Wheat Germplasm Conservation and Use Community (Germplasm EWG).	EWG, Germplasm, Wheat Initiative, Berlin, Germany.
10.	Dr. J.P. Jaiswal / Dr. N.K. Singh	Visited the University of Agronomic Sciences and Veterinary Medicine, Bucharest, Romania under Faculty Exchange programme funded by IDP-NAHEP, GBPUAT, Pantnagar	October 5-13, 2022
11.	Dr. Birendra Prasad	Acted as Dy. Coordinator in the Certificate course "Seed Production Technology"	February, 2022

Varieties Released / Notified in 2022

Crop	Variety Released & Notified	Scientist (s) involved
Urdbean (1)	Pant Urd 13-05	Dr. R.K.Panwar /
Lentil (1)	Pant Lentil 12	Dr. S.K.Verma /
Field Pea (1)	Pant P 462	Dr. Anju Arora
Yellow Mustard (1)	PYS-2016-8	Dr. Usha
Rai (1)	Pant Rai-22	Dr. Usha

Germplasm/Extant Varieties Registered in 2022

S. No.	Crop	Variety/Germplasm registration details	Agency	Scientist(s)
1.	Wheat	UP 2844 (REG/2021/0092)	PPV& FRA, GoI	Dr. J.P. Jaiswal, Dr. Swati & Dr. Anil Kumar
2.	Wheat	UP 2855 (REG/2021/0093)		
3.	Wheat	UP 2865 (REG/2021/0094)		
4.	Wheat	UP 2784 (REG/2021/0095)		
5.	Wheat	INGR22073/IC73591	ICAR-NBPGR	Dr. J. P. Jaiswal

Publications in 2022

- Research Papers: 55 (21 papers with NAAS rating >6.0)
- Book Chapters: 06
- Souvenir: 01

Student Achievements

S.No.	Name	details
1.	Dr. Sabysachhi Sahu	Selected in Odisha Administrative Service, 2022
2.	Mr. Charu Bist	Ph.D. scholar joined as Assistant Professor in TMU in Oct.2022
3	Ms. Varalakshmi	Selected as scientist in VNR seeds Ltd.
4.	Mr. Shubham Kumawat	Qualified JOINT CSIR-UGC Net Examination Qualified UGC Net JRF Examination Qualified GATE XL (LIFE SCIENCES) EXAMINATION- AIR 669
5.	Dr. Harshdeep	Selected as Assistant Scientist at HAU, Hissar
6.	Dr. Ankit Yadav	Selected as Assistant Scientist at HAU, Hissar
7.	Dr. Amit Gaur	Selected as Assistant Agriculture Officer, Uttarakhand
8	Mr. Palakurthy Sanjay	Got admission in University of Connecticut, USA for the Ph D programme
9.	Dr. Saurabh Badoni	Selected as scientist in IRRI, Philippines.
10.	Mr. Himanshu Chaudhary, Mr. Amit Kumar and Miss Tushadri Singh	Received best poster award in the National Symposium entitled "Remembering Gregor Johann Mendel on his Bicentennial Birth Year (From Scratch to Factor to Gene to Genome)" Organised by the Deptt. of Genetics & Plant Breeding, GBPU&AT May 5-6,2022
11.	Ms. Meghashri Patil	Received best poster award in the symposium entitled "Tending Mendel's Garden for a Perpetual and Bountiful Harvest" organized by ICAR-IARI, New Delhi, 19 July 2022
12	Mr. Prabhat Singh Ms. Nimita Kandwal	Selected as Sr. Technical Assistant in U.P. Govt.

Others

- **National Symposium Organized:** Remembering Gregor Johann Mendel on his Bicentennial Birth Year (From Scratch to Factor to Gene to Genome) on May 5-6, 2022
- Organized Certificate course “Seed Production Technology” in February, 2022

Infrastructure Development in 2022

- Air conditioning of the Library cum Samvad Hall

sponsored by the alumnus Dr. R. K. Singh of the department.

- Tile flooring of the PG laboratory sponsored by the ICAR development grant.
- Smart classroom renovation of Lecture room 205A

Faculty Retired in 2022

- Dr. Virendra Singh Singh, Professor
- Dr. B.B.Bandoupadhyay, Professor



Faculty members of department of Genetics & Plant Breeding



National Symposium organized by the Department of Genetics & Plant Breeding on Bicentenary of Gregor Johann Mendel, the Father of Genetics

New Varieties Released



Pant Urd 11



Pant Pea 462



Pant Pili Sarson-2 (PYS-2016-8)



Pant Rai-22 (PRL-2013-17)



Pant Lentil 12



Dr. J.P. Jaiswal receiving Dr S. Radhakrishnan Best Teacher Researcher Award 2021-22 from Hon'ble Vice-Chancellor Dr. M.S. Chauhan



Dr. J.P. Jaiswal being honoured with Fellowship of SAWBAR, ICAR-IIWBR, Karnal



Department of Horticulture



Dr. D. C. Dimri
(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.

Department: Genesis with Vision and Mission

The 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 has started from the academic year 2000-01.

Vision

To provide foundation for a 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 the major emphasis on fruits and flowers including their postharvest management, processing, value addition and waste utilization.

List of Faculty Members

S. No.	Name of Faculty	Designation	Specialization
1.	Dr. D.C. Dimri	Professor & Head	Fruits (Temperate Fruits)
2.	Dr. V. K. Rao	Professor.	Horticulture (Floriculture & Pomology)
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 Tech. & 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 & Landscaping
11.	Dr. Satish Chand	Senior Research Officer	Fruits & Floriculture
12.	Dr. Rajesh Kumar	Associate Professor	Fruits (Tissue culture & Canopy management)
13.	Dr. Navin Singh	Senior Research Officer	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 running in the Department

S.No.	Name of the Project	Sponsoring agency	P.I. & Co-P.I.
1.	All India Coordinated Research Project on Floriculture	ICAR, New Delhi	Dr. Ajit Kumar (P.I.) Dr. V. K. Rao (Co-P.I.) Dr. B. D. Bhuj (Co-P.I.) Dr. Ranjan Srivastava (Co-P.I.)
2.	All India Coordinated Research Project on Fruits (Mango, Litchi and Guava)	ICAR, New Delhi	Dr. A. K. Singh (P.I.) Dr. Poonam Srivastava (Co-P.I.) Dr. Satish Chand (Co-P.I.) Dr. Rajesh Kumar (Co-P.I.) Dr. Pratibha (Co-P.I.) Dr. Rashmi Panwar (Co-P.I.)
3.	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-P.I.)
4.	Evaluation of Isabion in Apple for fruit retention, yield increase and better fruit quality.	M/s Syngenta India Ltd, Pune, Maharashtra	Dr. D. C. Dimri (P.I.) Dr. V. P. Singh (Co-P.I.)
5.	Evaluation of ambition complete as liquid fertilizer on apple.	Bayer Crop Science Limited	Dr. V. P. Singh (P.I.) Dr. D. C. Dimri (Co-P.I.)

Programs running in the Department

S. No.	Name of the Program	No. of seats		Total
		Uttarakhand domicile	ICAR	
1.	M.Sc. Ag. Horticulture (Fruit Science)	08	02	10
2.	M.Sc. Ag. Horticulture (Floriculture & Landscaping)	04	01	5
3.	Ph.D. Horticulture	05 (4+1)	01	6
4.	Ph.D. Horticulture (Floriculture & Landscaping)	04 (3+1)	01	5

Salient Achievements of the Department

Publications

S. No.	Particulars	Number of Publications
1.	Research Paper > 6 NAAS rating	9
2.	Research Paper in Journals	16
3.	Popular Articles	05
4.	Books	02
5.	Book Chapter	01
6.	TV talks/Radio talks	15

Student Achievements

- Dr. Rajkumar Jatt, joined as Technical Officer at NHRDF, New Delhi
- Mr. Shubham Jagga, selected in IARI for Ph.D.
- Ms. V. Priyadarshini, joined as Horticulture Officer in A.P. Government Department.
- Ms. Sushree Suchismita Meher joined as AHO in Orissa Government Department.
- Ms. Priyanka, joined as ADO Horticulture in Uttarakhand Government Department.

Research Achievements

- Department of Horticulture under AICRP (Fruit) has organized "Mango Day: National Seminar on Technology Awareness" on 8th July, 2022 at College of Agriculture, Pantnagar.
- Enhancement of flowering, fruit-set and yield in mango by use of potent chemicals.
- Use of micronutrients for higher yield and good fruit quality in mango
- Commercial cultivation of banana cv. Grand Naine (G-9) in Tarai Region of Uttarakhand
- Nutrient management by organic and inorganic sources in litchi, guava, peach and plum

- Girdling to increase bearing potential in litchi
- Bagging of litchi and mango for quality fruits
- Fertigation and irrigation scheduling in VNR Bihi guava for higher productivity and quality under tarai conditions of Uttarakhand.
- Standardization of drip-based irrigation scheduling and mulching in pomegranate cv. Bhagwa for higher yield and quality under tarai condition of Uttarakhand.
- Wedge grafting performed during the second fortnight of February to the first fortnight of March under open condition may be recommended for mass multiplication of guava plants.
- Rejuvenation techniques in Mango, Guava and Lichi.
- Morpho-molecular characterization and hybridization studies in peaches.
- Nine gladiolus mutants have been isolated and these are under study of its stability for its commercialization.
- Application of NPK @ 75:112.5:75 kg/ha/year through drip fertigation improves the growth and flowering of Chrysanthemum.
- Application of 6% Panchagavya + common basal dose can be recommended commercial cultivation of chrysanthemum under Tarai conditions.

- Punjab Mohini, Bidhan Chitra and Bidhan Mansi varieties are ideal for pot mum production.
- The combined application of silica oxide as 75kg/ha soil application with 3% foliar application of silica dioxide has significant response on vegetative growth,

flowering and corm attributes of gladiolus cv. Rose Supreme under Tarai condition.

Infrastructure Development in 2022

Renovation of U.G., Post harvest and Bio-assay lab.



Inaugural Session of Mango Day on 8th July, 2022 at College of Agriculture, GBPUA&T, Pantnagar



“Mango Diversity Show” organized at College of Agriculture, GBPUA&T, Pantnagar on 8th July, 2022

Department of Plant Pathology



Department: Genesis with Vision and Mission

The Department of Plant Pathology was created & 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 the recognized leader in the country.



Dr. Pradeep Kumar
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.

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. The 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 the services rendered 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 government and non-government 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
- 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

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.

List of Faculty Members

S. No.	Name of Faculty	Designation	Specialization
1.	Dr. Pradeep Kumar	Professor and Head	Soybean Pathology, Maize Pathology & Fruit Pathology
2.	Dr. K.P. Singh	Professor	Plant Disease Epidemiology & Forecasting
3.	Dr. Yogendra Singh	Professor	Sorghum & Forest Pathology
4.	Dr. R.P. Singh	Professor	Vegetable Pathology and Maize Pathology
5.	Dr. K.P.S. Kushwaha	Professor	Pulse Pathology, Mycology, Mushroom
6.	Dr. A.K. Tewari	Professor	Rapeseed-mustard pathology, Integrated Disease Management, Pathogen diversity, Biological control of plant pathogens, Mushroom production technology
7.	Dr. Satya Kumar	Professor	Nematology
8.	Dr. L.B. Yadav	Associate Professor	Mycology and Pulse Pathology
9.	Dr. Roopali Sharma	Senior Research Officer	Biological Control
10.	Dr. Bijendra Kumar	Senior Research Officer	Small Millets & Rice Pathology
11.	Dr. S.K. Mishra	Senior Research Officer	Mushroom Production Technology
12.	Dr. Shailbala	Senior Research Officer	Potato Pathology
13.	Dr. Deepshikha	Junior Research Officer	Wheat Pathology
14.	Dr. Geeta Sharma	Junior Research Officer	Sugarcane Pathology & Mushroom Production Technology
15.	Dr. Rashmi Tewari	Assistant Professor	Seed Pathology / Seed Health Technologies
16.	Dr. Shilpi Rawat	Assistant Professor	Plant Nematology and Mushroom

Research Projects running in the Department

All India Coordinated Research Project

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

Adhoc Projects

S. No.	Project Name	P.I./Co-P.I.
1	Development of Natural Product from Plant Origin as Potent Bio-pesticide for Plant Disease Management- Funded by Uttarakhand Council of Biotech.	Dr. Rashmi Tewari (P.I.)
2	Production of Growing Medium of Button Mushroom through New Invented Semi-Automatic Portable Composting Structure at the Door of Beneficiaries (Women and ST/SC Community People) of Uttarakhand Hills- Funded by National Mission on Himalayan Studies	Dr. S.K. Mishra (P.I.)
3	Characterization of Chickpea Germplasm Resource to Accelerate Genomics-assisted Crop Improvement under mission programme of Characterization of Genetic Resource Funded by DBT	Dr. L.B. Yadav (Co-P.I.)
4	Dissemination of Production Technology of Mushroom and Spawn among Farmer of the selected village of Gadarpur (U.S. Nagar) Uttarakhand- Funded by Uttarakhand Council of Biotech.	Dr. K.P.S. Kushwaha (P.I.) Dr. Shilpi Rawat (Co-P.I.)
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.	Dr. K.P.S. Kushwaha (P.I.) Dr. Shilpi Rawat (Co-P.I.)
6	Development of Serological and Molecular diagnostic kits for seed health assessment of multiple seed borne pathogens infecting tomato seed crop	Dr. K. Vishunavat (P.I.) Emeritus Scientist

Programmes running in the department

S.No.	Name of the Program	Number of Seats		
		Uttarakhand Domicile	ICAR	Total
1	M.Sc Ag. (Plant Pathology)	05	05	10
2	Ph.D. (Plant Pathology)	04	04	08

Salient Achievements of the Department

Research Achievements

- Screened materials for different crops for disease resistance
- Registration of one wheat (INGR22073) germplasm with IC 73591 by ICAR-NBPGR, Pusa Campus, New Delhi. July 08, 2022.
- The Artificial inoculation method, Rubbing was found to be most significantly superior to Dusting, Spraying and Brushing in establishing the host-pathogen relationship.
- Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC @ 0.10% a novel fungicide was found to be superior in controlling powdery mildew disease of wheat with better yield and in the future it may be included in the management practice of powdery mildew of wheat.
- Molecular marker characterization revealed resistance in wheat genotypes showing phenotypic resistance to powdery mildew disease.
- Gompertz and Logistic models were the most appropriate and best-fitted model for the prediction of leaf rust.
- 21 isolates of bacterial blight pathogen were sequenced and deposited in the NCBI Genebank database under accession numbers OP315685, OP272166, OP272164, OP149385, OP272162, OP272161, OP272163, OP159846, OP313731, OP159847, OP272165, OP269538, OP272167, OP149388, OP159850, OP269539, OP149387, OP149386, OP272168, OP146138 and OP315685.

Student Achievements

- Mr. Vijay Joshi, Ph.D. student received the best Ph.D. thesis award from AIU on May 02, 2022.
- Mr. Devanshu Dev, Ms. Sneha Shikha & Mr. Saurabh Dubey got selected as Subject Matter Specialist, at RAU, Pusa, Bihar.
- Mr. Jitesh Kumar, Ms. Priya Singh, Mr. Vivek Singh & Mr. Ranveer Kumar got selected as Senior Technical Assistant (Group A), Plant Protection, Govt. of UP.
- Mr. Arun Kumar, PhD scholar awarded best poster presentation award in 8th International Conference, Plant Pathology: Retrospect and Prospect, organized by Indian Phytopathological Society, SKNAU, Jobner, Jaipur, March 23-26, 2022.

- Mr. B. K. Namriboi Ph. D. student received the best poster award (2nd) in a National symposium on Multidisciplinary Approaches for Plant Health Management organized by Indian Society of Plant Pathologists (INSOPP), PAU, Ludhiana and GBPUA&T, Pantnagar held at Pantnagar w.e.f. 4-5th November 2022.
- Ms. Himani Jeena Ph. D. student received best poster presentation award at Indian Phytopathological society, International Conference, plant pathology on Influence of weather factor on the differential response of soybean genotypes to Rhizoctonia aerial blight: March 23-26, 2022.
- Ms. Himani Jeena Ph. D. student was awarded best poster presentation at Indian Phytopathological society mid-eastern zone chapter, National Symposium "Recent trends in phytopathology to address emerging challenges for achieving food security on Survey and identification of Rhizoctonia aerial blight of soybean in Uttarakhand: Feb 21-22, 2022.
- Ms. Himani Jeena Ph. D. student was awarded best poster presentation at Regional Conference on prioritizing crop-specific technologies for sustainable profitability on Influence of weather factor on the severity of yellow leaf disease of sugarcane. April 29-30, 2022.
- Mr. Manisha Dev Ph. D. student qualified CSIR NET-JRF Fellowship (2022) for five years tenure.
- Mr. Manisha Dev Ph.D. student qualified GATE 2022 in Life Sciences.

National Award, Fellowship Earned by the Faculty Member

- Dr. Rashmi Tewari, Assistant Professor received the Best Women Scientist Award on March 08, 2022.



Department of Soil Science



Dr. Ramesh Chandra
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.

Department: Genesis with Vision and Mission

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.

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.

List of Faculty Members

The department has well qualified and experienced faculty to carry out teaching, research and extension activities in the field of Soil Science. List of faculty members with their specialization is as follows:

S. No.	Name	Designation	Specialization
1.	Dr. Ramesh Chandra	Professor & Head	Soil Microbiology/ Soil Fertility
2.	Dr. K.P. Raverkar	Professor & Dean, Post Graduate Studies	Soil Microbiology
3.	Dr. Navneet Pareek	Professor	Soil Fertility/ Soil Microbiology
4.	Dr. Ajaya Srivastava	Professor	Soil Fertility/Soil chemistry
5.	Dr. Shri Ram	Professor	Soil Chemistry/ Soil Fertility
6.	Dr. Jai Paul	Professor	Soil Chemistry/ Soil Fertility
8.	Dr. A.K. Pant	Senior Research Officer	Soil Chemistry/ Soil Fertility
7.	Dr. Poonam Gautam	Senior Research Officer	Soil Microbiology/ Soil Fertility
10.	Dr. S.P. Pachauri	Senior Research Officer	Soil Chemistry/Micronutrients
12.	Dr. S.P. Gangwar	Junior Research Officer	Soil Microbiology /Soil Chemistry
11.	Dr. A.P. Singh	Senior Research Officer	Soil Fertility/Soil Chemistry
9.	Dr. Veer Singh	Senior Research Officer	Soil Physics/Soil Fertility
13.	Dr. A.K. Tyagi	Assistant Professor	Soil Chemistry/ Soil Fertility
14.	Dr. Manisha Rani	Assistant Professor	Soil Physics/Soil Fertility

Research Project running in the Department

Presently, 10 All India Coordinated Research Projects and 01 Network project funded by ICAR, 03 ad-hoc

research projects and 05 bio-efficacy research projects are operating in the department. The list of ongoing research projects is as follows:

All India Coordinated Research Projects

S.No.	Project Name	Sponsoring Agency	P.I./Co-P.I.
1.	AICRP on MULLaRP (Soil Microbiology component)	ICAR	Dr. Ramesh Chandra (P.I.) Dr. Navneet Pareek (Co.-P.I.)
2.	AICRP on Chickpea (Soil Microbiology component)	ICAR	Dr. Ramesh Chandra (P.I.) Dr. Navneet Pareek (Co.-P.I.)
3.	AICRP on Soybean improvement (Soil microbiology component)	ICAR	Dr. Navneet Pareek (P.I.)
4.	AICRP on maize improvement (Soil Science component)	ICAR	Dr. Veer Singh (P.I.)
5.	AICRP on long term fertilizer experiments	ICAR	Dr. Shri Ram

6.	AICRP on soil test crop response correlation	ICAR	Dr. Ajaya Srivasatva (P.I.) Dr. Poonam Gautam
7.	AICRP on micro and secondary nutrients and pollutant elements in soils and plants	ICAR	Dr. S.P. Pachauri (P.I.) Dr. A.K. Tyagi (Co.-P.I.)
8.	AICRP on Integrated farming system (Soil Science component)	ICAR	Dr. Ajeet Pratap Singh (P.I.)
9.	AICRP on rice (Soil Science component)	ICAR	Dr. A. K. Pant (P.I.)
10.	AICRP on Water Management (Soil Science component)	ICAR	Dr Manisha Rani (P.I.)
11.	AINP on soil biodiversity-biofertilizers	ICAR	Dr. K.P. Raverkar (P.I.)

Adhoc Research Projects

S.No.	Project Name	Sponsoring Agency	P.I./Co-P.I.
1.	Fertility studies of AGMA Energy Pvt. Ltd. AMF (<i>Arbuscular Mycorrhizal Fungi</i>) for yield increase in rice	M/S AGMA Energy Private Limited, New Delhi	Dr. Ajeet Pratap Singh (P.I.) Dr. Navneet Pareek (Co-P.I.)
2.	AGMA (Studies on the efficacy of AGMA-Foliar (Brand Name: Kazuki Gold/ Yashi Gold) for growth, development and yield increase in Paddy	M/S AGMA Energy Private Limited, New Delhi	Dr. Ajeet Pratap Singh (P.I.)
3.	Progibb Sugarcane (Evaluation of Bio-efficacy of Gibberellic Acid 0.1% Gr in Sugarcane and its effect on succeeding crop)	M/S Sumitomo Chemical India P.Ltd. New Delhi	Dr. Ajeet Pratap Singh (P.I.)
4.	Impact of Nano fertilizers, biofertilizers and sea weed extracts on crop yields and soil health	IFFCO, New Delhi	Dr. Ramesh Chandra (P.I.) Dr. Navneet Pareek (Co-P.I.)
5.	Bio-efficacy study of Agma Energy Pvt. Ltd. Mycorrhiza in wheat	M/S AGMA Energy Private Limited, New Delhi	Dr. Ramesh Chandra (P.I.) Dr. A.P. Singh (Co-P.I.) Dr. Navneet Pareek (Co-P.I.)
6.	Bio-efficacy trial on Urea Ammonium Nitrate (UAN) on Paddy Rice Crop	M/s Krishi Rasayan Export Pvt. Ltd. Delhi	Dr. Ajaya Srivastava (P.I.)
7.	Impact of nano fertilizers on crop yield of rice maize and soil health (funding agency - IFFCO)	IFFCO, New Delhi	Dr. Navneet Pareek (P.I.)
8.	Characterization of kidney bean (Rajmash) rhizosphere microbiome from higher altitude of Indian Central Himalaya and it's field applications.	Ministry of Environ., Forest and Climate Change, GOI	Dr Ajay Veer Singh (P.I.) Dr. Navneet Pareek (Co-P.I.)

Programmes running in the Department

S.No.	Name of the Program	Number of Seats		
		Uttarakhand Domicile	ICAR	Total
1	Ph.D. Ag.(Soil Science)	08	02	06
2	M.Sc Ag.((Soil Science)	04	01	11

Salient Achievements of the Department

Faculty Achievements

■ Dr Shri Ram, Professor, Soil Science and his team was organized a Kisaan Goshthi on 19.05.2022 at 11.00 Am in the Conference Hall, College of Agriculture Under AICRP on Long Term Fertilizer Experiments. To promote balanced fertilizers application for crops by weaker section farmers, agricultural inputs viz; Rice seed, Urea, SSP, MOP and Zinc fertilizer were distributed to 24 Scheduled Cast marginalized farmers which were selected from Inderpur, Anandpur, anandpur/colony Cutting and Raghav Nagar villages of Udham Singh Nagar District. Farmers visited CRC, Mashroom Production centre and Long Term Fertilizer Experimental Site.

■ Dr. S. P. Pachauri, S.R.O., Dr. A.K. Tyagi, Assistant Professor Soil Science and their team of AICRP-MSPE organized a programme named 'Kisan Bhagidari, Prathmikta Hamari' campaign at Jeolikote on 26.4.2022 under 'Azadi Ka Amrit Mahotsav'. More than 116 farmers (including male and females) actively participated in this training programme.

■ Dr. S. P. Pachauri, S.R.O., Dr. A.K. Tyagi, Assistant Professor Soil Science and their team of AICRP-MSPE organized training for SC farmers at Harinagar village of Ramgarh block of Nainital district, Uttarakhand on 15.07.2022. Total sixty battery operated power sprayer machine were distributed among 60 SC farmers. Also, 5 kg zinc sulphate (33% Zn) and 1 kg boron fertilizers were distributed to each selected farmer and they were told about the use and maintenance of the machine.

Student Achievements

Following students got placement in different organizations during the year 2022:

S. No.	Name	Id No.	Post and Organization
1.	Dr Rini Lavanya	49494	Assistant Professor, SSU, Cuttack, Odisha
2.	Dr. Prerna Bungla	41452	Assistant Agriculture Officer, Dept. of Agriculture, Uttarakhand
3.	Mr. Anil Kumar	56632	Management trainee JU Agri Sciences private limited
4.	Ms. Nidhi Luthra	44383	Assistant Professor (Department of Soil Science and Agricultural Chemistry) under Uttar Pradesh higher education service commission (UPHESC) in C.C.R. (PG) College, Muzaffarnagar, UP.
5.	Dr Shubham Anil Durgude	54164	Soil Scientist (Precision Agriculture and AI-IOT), Mahindra and Mahindra
6.	Ms. Avantika Negi	56977	Field Executive- Knowledge transfer Agronomy McCain India Pvt. Ltd.

■ Mr. Suraj Melkani, Id. No. 45965, a Ph. D. scholar has taken admission in University of Florida (Ph.D.) in Soil Water and Ecosystem Sciences, a fully Sponsored Ph. D. programme.

■ Mr. Akshay Shrivastava, Id. No. 57115, got First position in Poster Presentation in UCB sponsored National Conference on "Himalayan Cereals For Food and Nutritional Security" held on 6th September 2022 at Dept of Biochemistry, CBSH, Pantnagar.

■ Ms. Pooja Nain, Id. No. 46071, a Ph. D. scholar qualified UGC NET-2022 (Environmental Science).

■ Soil test-based fertilizer recommendations and site-specific nutrient management practices have been developed.

■ Development of consortia biofertilizer inoculant production technology of Rhizobium and PGPR

■ The Soil Testing Lab has analyzed more than 322 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.

■ 22 research papers and one book chapter have been published during 2022 in national and international journals of repute.

■ Organized World Soil Day on 5th December, 2022 by conducting three events viz a) Painting and Slogan competition for PG and PhD. Students, b) Quiz for undergraduate students and c) Online Guest lecture by Dr. Amitva Rakshit, Associate Professor, Institute of Agriculture Sciences; BHU.

Infrastructure Development in 2022

Department has procured new Digital pH meter, Flame photometer, single distillation unit and hot plate to strengthen the analytical work of research and undergraduate and post graduate classes.



Group photograph of faculty members of Department of Soil Science



Farmers' visit Kisaan Goshti on 19.05.2022 at Pantnagar



Distribution of battery operated power sprayer machine among 60 SC farmers along with 5 kg zinc sulphate (33% Zn) and 1 kg boron fertilizers on 15.07.2022 at Harinagar village.



Prize distribution to the winners of the Poster & Slogan Writing Competition held on the occasion of World Soil Day dated 5th December 2022



Students working in Microbiology Laboratory in the Department of Soil Science

Department of Vegetable Science



Dr. D. K. Singh
Head

A total of 41 varieties have been released/ identified at State/ National level by the Department of Vegetable Science. It is continuously producing outstanding research outcomes wherein four varieties suitable for poly house cultivation (2 in Tomato and 2 in Cucumber) have been released and 50 agro-techniques have been standardized in different vegetable crops.

Department: Genesis with Vision and Mission

The academic council approved the M.Sc. (Ag.) and Ph. D. programmes in Horticulture (Vegetable Science) in the Department of Vegetable Science effective from 1995-96 and also approved the creation of a separate department of Vegetable Science after bifurcation of the existing department of Horticulture in its meeting on 11 August 1994. The board of management approved the establishment of the department of vegetable science in its 156th meeting held on January 31, 1995, and the department of vegetable science at the main campus came into formal existence w.e.f. January 31, 1995. The department of Vegetable Science is a centre 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 envisages integrating all three functions of 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 undergraduate 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 the 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.	Name of Faculty Member	Designation	Specialization
1.	Dr. Dinesh Kumar Singh	Professor & Head	Vegetable Breeding
2.	Dr. Jagdama Prasad Singh	Professor	Vegetable Breeding
3.	Dr. Manoj Raghav	Professor	Vegetable Production
4.	Dr. Dharendra Kumar Singh	Professor	Vegetable Breeding
5.	Dr. Dharendra Singh	Professor	Vegetable Breeding
6.	Dr. Suresh Kumar Maurya	Junior Research Officer	Vegetable Breeding
7.	Dr. Lalit Bhatt	Junior Research Officer	Vegetable Agronomy
8.	Dr. Alka Verma	Junior Research Officer	Vegetable Breeding

Research Projects running in the Department

S.No.	Research Projects	Sponsoring Agency	P.I.
1.	Technological interventions for production and post-harvest processing of vegetables towards enhancing the socio-economic condition of farmers in the Himalayan region of Uttarakhand	Department of Biotechnology, Govt. of India	Dr. D. K. Singh (P.I.)

Programmes Running in the Department

S.No.	Name of the Programme	Number of Seats		
		Uttarakhand Domicile	ICAR	Total
1.	Ph.D. Ag.(Vegetable Science)	02	NIL	02
2.	M.Sc Ag.(Vegetable Science)	06	NIL	06

Salient Achievements of the Department

Faculty Achievements

- Dr. Manoj Raghav, Professor, Dr. Dharendra Singh, Professor and Dr. Lalit Bhatt, JRO conferred Fellowship 2022 from International Society for Noni Science, Chennai, India

Student Achievements

- Ms. Priyanka Rawat (Id. 56510) M.Sc. Ag. Horticulture (Vegetable Science) got selected for the post of Junior Breeder in Kamadgiri Seeds.
- Ms. Ankita Belwal (Id. 56480) got selected in Yara Fertiliser India Pvt. Ltd.

- Ms. Subhashree Subhasmita (Id. 56883) M.Sc. Ag. Horticulture (Vegetable Science) selected as Assistant Agriculture Officer, Govt. of Odisha.

Infrastructure Development in 2022

- Renovated PG lecture room in the department of Vegetable Science.

Publications

- Research Paper: 06



Teaching through Interactive panel

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 for 35 times in the year 2022 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. R. K. Singh
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. Salil K. Tewari
Professor & Head,
Genetics & Plant
Breeding



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



Dr. Pradeep Kumar
Professor & Head,
Plant Pathology



Dr. Ramesh Chandra
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. Amit Bhatnagar, Dr. Navneet Pareek, Dr. N. K. Singh, Dr. A. K. Singh, Dr. A. K. Tewari, Dr. S. K. Kashyap, Dr. J. P. Jaiswal, Dr. K. P. Singh, Dr. R. M. Srivastava, Dr. V. P. Singh, Dr. Anil Kumar

College Academic Committee (C.A.C.)



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

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



From Left to Right: Dr. Shilpi Rawat, Dr. Kiran Rana, Dr. Amardeep, Dr. Sumit Chaturvedi, Dr. Shweta Chaudhary, Dr. Sabbu Sangeeta

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



From Left to Right: Dr. Shweta Uniyal, Dr. Rajeev Ranjan, Dr. Chandra Dev, Dr. Satish Chand

College Placement Committee (C.P.C.)



From Left to Right: Dr. S.K. Maurya, Dr. Anil Sharma, Dr. Shweta Chaudhary, Dr. Omvati Verma, Dr. Usha Pant, Dr. Rashmi Panwar

The Online Certificate Courses

The faculty ran nine certificate courses of three months each in year 2021 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 Srivastav, 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. Rohitashav Singh
Professor, Agronomy



Dr. V.K. Singh
Professor, Agronomy



Dr. M.S. Pal
Professor, Agronomy



Dr. D.K. Singh
S.R.O., Agronomy



Dr. K.P. Raverkar
Professor, Soil Science



Dr. A.K. Singh
Professor, Horticulture



Dr. A.P. Singh
S.R.O., Soil Science



Dr. S.K. Mishra
S.R.O., Plant Pathology



Dr. Poonam Srivastava
Associate Professor, Entomology



Dr. Omveer Singh
Associate Professor, Horticulture



Dr. Lalit Bhatt
Associate Professor, Vegetable Science

Certificate course on Seed Production Technology



Dr. Salil K. Tewari
Professor & Head,
Genetics & Plant Breeding



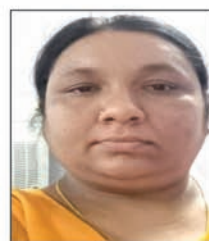
Dr. M.K. Nautiyal
Professor,
Genetics & Plant Breeding



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



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



Dr. Usha Pant
Junior Research Officer,
Genetics & Plant Breeding



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



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



Dr. Virendra P. Singh
Professor & Head,
Agronomy

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*

Certificate course on Indian Monsoon, Weather Forecasting and Agromet advisory services



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. Dharendra 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 Kamar
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 Beekeeping



Dr. Pramod Mall
Professor,
Entomology

Certificate course on Mass Production of Important Bioagents



Dr. Roopali Sharma
Senior Research Officer,
Plant Pathology



Dr. Ravi Prakash Maurya
Assistant Professor,
Entomology

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, Associate 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 2021-22.



Dr. R. M. Srivastava
Coordinator Examination



Dr. Amardeep
Dy. Coordinator Examination

The RAWE Team



Dr. Ramesh Chandra



Dr. R.P. Singh



Dr. Omveer Singh



Dr. Poonam Gautam



Dr. Birendra Prasad



Dr. J.P. Purwar

The NSS Team



Dr. Alka Verma



Dr. Ruchi Rani Gangwar



Dr. Ajay Kumar Tripathi



Dr. Amit Kesarwani

The IDP-NAHEP teams:

The academic team, innovation cum incubation team, e-content development team, language team, procurement team, informatics team, industry collaboration team, PME team of IDP-NAHEP was assisted through illustrious faculty of the College who led the IDP activities as an extremely successful project supporting the University cause.



Dr. Manisha Rani
*Assistant Professor, Soil Science, College of Agriculture
Nodal Officer,
Procurement/ Member,
Agri-Informatics Team*



Dr. Amit Kesarwani
*Assistant Professor,
Agronomy,
College of Agriculture
Member, Academic
Team/ Innovation and
Incubation Center*



Dr. Amit Bhatnagar
*Associate Professor,
Agronomy, College of
Agriculture
Member, Academic
Team*



Dr. Poonam Gautam
*Associate Professor, Soil Science, College of Agriculture
Member, Academic Team*



Dr. P. K. Pandey
*Professor, Genetics and Plant Breeding, College of Agriculture
Member, Innovation and Incubation Centre*



Dr. Ranjan Srivastava
*Professor and Head,
Horticulture, College of Agriculture
Member, Innovation and Incubation Centre*



Dr. Lalit Bhatt
*Junior Research Officer,
Vegetable Science, College of Agriculture
Member, Innovation and Incubation Centre*



Dr. M. A. Ansari
*Professor, Agricultural Communication, College of Agriculture
Member, e-Content Development Team*



Dr. Neelam Bhardwaj
*Professor, Agricultural Communication, College of Agriculture
Member, e-Content Development Team*



Dr. A. P. Singh
*Senior Research Officer, Soil Science, College of Agriculture
Member, e-Content Development Team*



Dr. A. S. Nain
Director Research Coordinator, Agri-Informatics Team



Dr. Ajay Kumar
*Assistant Professor, Agronomy, College of Agriculture
Member, Agri-Informatics Team*



Dr. R. K. Singh
 Professor,
 Agrometeorology,
 College of Agriculture
 Member, Agri-
 Informatics Team



Dr. A. K. Tyagi
 Assistant Professor,
 Soil Science, College of
 Agriculture
 Member, Agri-
 Informatics Team



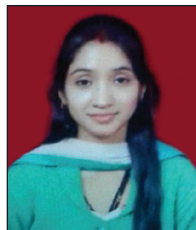
Dr. Rajeev Ranjan
 Assistant Professor,
 Agrometeorology,
 College of Agriculture
 Member, Agri-
 Informatics Team



Dr. Arpita Sharma
 Assistant Professor,
 Agricultural
 Communication,
 College of Agriculture
 Member, e-Content
 Development Team



**Dr. Ajay Kumar
 Tripathi** Assistant
 Professor, Agricultural
 Economics, College of
 Agriculture
 Member, Language
 Laboratory Team



Dr. Kiran Rana
 Assistant Professor,
 Agricultural
 Communication,
 College of Agriculture
 Member, Language
 Laboratory Team/
 Project Monitoring and
 Evaluation Team



Dr. A. K. Singh
 Professor,
 Horticulture, College
 of Agriculture
 Member, Industry
 Collaboration Team



Dr. Navneet Pareek
 Professor, Soil Science,
 College of Agriculture
 Member, Industry
 Collaboration Team



Dr. S. K. Sharma
 Professor & Head, Food
 Science and Technology,
 College of Agriculture
 Member, Industry
 Collaboration Team/
 Project Monitoring and
 Evaluation Team



Dr. Gurvinder Singh
 Associate Professor,
 Agronomy, College of
 Agriculture
 Member, Project
 Monitoring and
 Evaluation Team



Dr. Sumit Chaturvedi
 Associate Professor,
 Agronomy, College of
 Agriculture
 Member, Project
 Monitoring and
 Evaluation Team



Dr. Rashmi Tewari
 Assistant Professor,
 Plant Pathology, College
 of Agriculture
 Member, Project
 Monitoring and
 Evaluation Team/
 Language Laboratory
 Team

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, Dean, Post Graduate Studies
- Dr. A.S. Nain, Director, Experiment Station
- Dr. Ramesh Chandra, Chairman, Store Purchase Office and University Rate Contract Committee
- Dr. Sriram, Librarian, University Library
- Dr. K.P. Singh, Joint Director Research (Farmers Research & Technology Needs Programme)
- Dr. Subhash Chandra, Joint Director Research (National Agricultural Research System)
- Dr. M.S. Negi, Additional Chief Personnel Officer and Joint Director Research (Intellectual Property Management)
- Dr. Anil Kumar Chahal, Joint Director Research (Strategic Policy Research)
- Dr. Ajay Kumar, Assistant Director Research and Chief Operating Officer, STRIEDS
- Dr. J.P. Jaiswal, Nodal Officer, Pantnagar Centre for Plant Genetic Resources and Chief Coordinator & Secretary, Alumni Almamater Advancement Association (4A)
- Dr. Navneet Pareek, Additional Director, Administration and Monitoring
- Dr. Ranjan Srivastava, Joint Director, Extension Education
- Dr. R.K. Panwar, Joint Director, Breeder Seed Production Centre
- Dr. Anil Kumar, Associate Director, Breeder Seed Production Centre
- Dr. S. P. Singh, Associate Director, Breeder Seed Production Centre
- Dr. Pramod Mall, Joint Director, Honey Bee Research and Training Centre
- Dr. S. K. Verma, Joint Director, NEB Crop Research Centre
- Dr. A.P. Singh, Associate Director, NEB Crop Research Centre; Chief Operating Officer, STRIEDS and Care Taker Officer, NCC (Air Wing)
- Dr. A.S. Jeena, Research School Director, Gen. Bipin Rawat Research School on Hill Development and Joint Director, Sugarcane Research Centre, Kashipur
- Dr. V.K. Rao, Joint Director, Model Floriculture Centre and OIC Garden Section
- Dr. A.K. Tiwari, Joint Director, Mushroom Research and Training Centre
- Dr. S.K. Sharma, CEO, Pant Business Park
- Dr. R.M. Srivastava, CEO, Startup Entrepreneurship and Innovation Development Society; Coordinator, External Examination, College of Agriculture and Co-coordinator, International School of Agriculture
- Dr. V.P. Singh, Joint Director, Medicinal Plants Research and Development Centre and Manager, Campus School Management Committee, Pantnagar
- Dr. A.K. Singh, Joint Director, Horticulture Research Centre
- Dr. Pratibha, Assistant Director, Horticulture Research Centre
- Dr. Dinesh Kumar Singh, Officer Incharge, Khanna Farm
- Dr. Lalit Bhatt, Assistant Director, Vegetable Research Centre
- Dr. Kranti Kumar, Assistant Director, Instructional Dairy Farm, Nagla
- Dr. Veer Singh, Joint Director, University Farm
- Dr. S.K. Yadav, Assistant Director, University Farm
- Dr. Omveer Singh, Coordinator SC/ST Cell and Co-coordinator, International School of Agriculture
- Dr. Satya Kumar, Liaison officer, SC/ST Cell
- Dr. Rajeew Kumar, Deputy Coordinator, Admission Cell
- Dr. Sumit Chaturvedi, Nodal Officer, ICAR Cell/ Assistant Coordinator, Planning & Technical Cell, Office of the Vice-Chancellor
- Dr. V.L.V. Kameshwari, Editor, Indian Farmers' Digest
- Dr. M.A. Ansari, Editor, Indian Farmers' Digest
- Dr. Amardeep, Editor, Kisan Bharti
- Dr. S.K. Maurya, Warden, CB-I
- Dr. A.K. Tripathi, Warden, CB-II
- Dr. Ruchi Rani Gangwar, Warden, Golden Jubilee
- Dr. Anju Pal, Warden, Subhash Bhawan
- Dr. Rashmi Panwar, Warden, Sarojini Bhawan
- Dr. Shweta Rai, Warden, Kasturba Bhawan
- Dr. Vineeta Rathore, Warden, Gandhi Bhawan

The Pride

The Vice-Chancellors' rolling trophy of Inter-Collegiate Debate 2022 in both English and Hindi section won by College of Agriculture

The College of Agriculture retained the legacy of winning the Vice-Chancellor's rolling trophy in University Inter-Collegiate Debate continuously for the third time with both trophies to their credit this year. The winner debaters Ms. Pragya Gargya and Mr. Prabhat Kumar represented in the English section whereas Mr. Ravi Kumar Jha and Mr. Sahil Bhatt represented in Hindi section. Last year, the College had won the English debate

with Ms. Mallika Tripathi and Ms. Aishna Srivastava as the team. The first debate was won by the college team of Ms. Shruti Kashyap and Ms. Manisha Chamoli in English. The college celebrated the prestigious victory in both languages with the brilliant performance of the college students. The Staff Counsellor and Co-Staff Counsellor of Agriculture Society Dr. V.C. Dhyani and Dr. Rashmi Panwar were specially congratulated for the accolade.



College of Agriculture English and Hindi debate teams receiving the Vice-Chancellor's Trophy 2022

Wellness and Meditation Centre established in College of Agriculture

The College of Agriculture premises got yet another facility of Wellness and Meditation Centre for students. The centre was inaugurated by Deputy Director General (Education) of Indian Council of Agricultural Research (ICAR) Dr. R.C. Agrawal and Senior Agriculture Economist of World Bank Mr. Shamseiv Bekzod in the presence of National Coordinator of IDP-NAHEP Dr. P.

Ramasundaram. The Centre was enlightened with a grand statue of Swami Vivekananda in meditative posture which was unveiled by Shri Ganesh Joshi, Agriculture Minister of Uttarakhand with Vice-Chancellor Dr. M.S. Chauhan. It is the first facility of its kind in campus where the students could come regularly for meditation and silent sitting.



Inauguration of Wellness and Meditation Centre by DDG (Agricultural Education) of ICAR Dr. R.C. Agrawal and Senior Agriculture Economist of World Bank Mr. Shamseiv Bekzod in the presence of National Coordinator of IDP-NAHEP Dr. P. Ramasundaram, Registrar, GBPUAT, Pantnagar Dr. A.K. Shukla and Dean Agriculture Dr. S.K. Kashyap.

The Achievers in ICAR JRF Examination

The College of Agriculture has a history of producing top rankers in ICAR JRF/SRF examination. The College takes immense pride in the achievements of its students and in the last few years, intense efforts were taken by

the College with the support of IDP-NAHEP project to organize remedial classes to assist the students in preparing for the ICAR JRF/SRF entrance examination. In 2022, the following students emerged as top rankers:



Aastika Pandey
Id. No. 52945
AIR 2 (ICAR-JRF,
Agronomy)



Ankita
Id. No. 53099
AIR 6 (ICAR-JRF,
Plant Sciences)



Pallavi Bisht
Id. No. 52958
AIR 9 (ICAR-JRF,
Plant Sciences)



Anjali Mehta
Id. No. 52965
AIR 13 (ICAR-JRF,
Agronomy)



Richa Kumari
Id. No. 53090
AIR 13 (GAT-B)



Mohit Singh Bohra
Id. No. 53074
AIR 16 (ICAR-JRF,
Social Science)



Sumit Bora
Id. No. 53074
AIR 21 (ICAR-JRF,
Plant Sciences)



Ravi Pandey
Id. No. 52950
AIR 22 (ICAR-JRF,
Physical Science)



Himanshu Bhakuni
Id. No. 53015
AIR 23 (ICAR-JRF,
Horticulture)



Om Narayan
Id. No. 53085
AIR 30 (ICAR-JRF,
Plant Biotechnology)



Priya Pujari
Id. No. 52976
AIR 46 (ICAR-JRF,
Entomology)



Atul Meena
Id. No. 53093
AIR 60, Category AIR 1
(ICAR-JRF, Soil Science)



Subhashree Subhasmita
Id. No. 56883
AIR 5 (ICAR-SRF,
Vegetable Science)



Moneddu Dhathri
Id. No. 56890
AIR 15 (ICAR-SRF,
Vegetable Science)



Arjun Hegde
Id. No. 56919
AIR 4, Category
AIR 1 (ICAR-SRF,
Agriculture Physics)



Vireesha P.
Id. No. 57017
AIR 12 (ICAR-SRF,
Entomology)

Chasing the dream of pursuing higher studies from abroad

Mr. Sanjay Palakurthy, a M.Sc. student of Department of Genetics and Plant Breeding qualified the TOEFL examination and secured admission in University of Connecticut, USA for pursuing his doctorate studies. His hard work and determination paid off and the College is proud of his achievement.



Sanjay Palakurthy

The Agriculture Society 2022



Agriculture Society 2022-23

Patron	Dr. M. S. Chauhan, Vice-Chancellor
President (Dean)	Dr. S. K. Kashyap, Dean Agriculture
Chief Counsellor	Dr. Brijesh Singh, DSW
Staff Counsellor	Dr. V.C. Dhyani, Associate Professor, Agronomy
Co-Staff Counsellor	Dr. Rashmi Panwar, Assistant Professor, Horticulture
Chairperson	Mr. Atul Gaur (54435)
Vice-Chairperson I	Mr. Paritosh Kumar (54461)
Vice-Chairperson II	Mr. Prabhat Kumar Singh (54404)
General Secretary	Ms. Abha Bhatt (55870)
Joint General Secretary I	Mr. Abhay Rawat (55811)
Joint General Secretary II	Ms. Tanvi Gupta (56404)
Treasurer	Mr. Asad Rehman (54634)
Literary Secretary	Mr. Sahil Bhatt (55843)

Cultural Secretary	Ms. Ayushi Bhatt (55902)			
Sports Secretary	Mr. Sparsh Jain (55910)			
Executives: Batch Representative (Ist to IVth year) Co-batch Representative (Ist to IVth year)	I st Year	BR		Ms. Pragati Suyal (58701) Mr. Harshit Arya (58675)
		Co- BR	Section A	Ms. Ritu Chaudhary (59442) Mr. Dhruv Sachdeva (59017)
			Section B	Ms. Pooja Joshi (59228) Mr. Nitin Tiruwa (59024)
			Section C	Ms. Ayushi Sah (59307) Mr. Harshit Upreti (59047)
			Food Tech	Ms. Prathibha Nagarkoti (59595) Mr. Karan Kumar (58678)
	II nd Year	BR		Mr. Deepanshu Mukati (58174) Ms. Manisha Kandwal (58092)
		Co- BR	Section A	Ms. Kritika Pandey (58300) Mr. Mohit Pratap Singh Gour (58298)
			Section B	Ms. Himanshi Kholiya (57803) Mr. Krishnpal Malviya (58210)
			Section C	Ms. Ayushi Subba (58320) Mr. Manish Bishnoi (58306)
			Food Tech	Mr. Tarun Singh Samant (57798) Mr. Deepak Giri Goswami (58400)
	III rd Year	BR		Ms. Jayshree Pandey (55739) Mr. Priyanshu Dixit (56889)
			Co- BR	Section A
			Section B	Ms. Aditi Kakkar (55924) Mr. Manas Bisht (55758)
			Section C	Ms. Simran Arya (55768) Mr. Aakarsh Nath (56414)
			Food Tech	Ms. Kanika Bora (56846) Mr. Yugal Alchauni (56895)

	IV th Year	BR	Ms. Aishna Srivastava (54458) Mr. Atul Gaur (54435)
		Co- BR	Section A Ms. Hema Mehra (54358) Mr. Arpit Jain (54442)
			Section B Ms. Srishti Sanwal(54354) Mr. Nitin Bhandari (54399)
			Section C Ms. Meghna Sarkar (54451) Mr. Rajat Joshi (54407)
			Food Tech Ms. Arti Bisht (54594) Mr. AbhayThapliyal (54684)
Chief Activity Coordinators	Ms. Mallika Tripathi (54412) Mr. Akash Sharma (54362)		
Haritima Committee	Heads: Ms. Ria Mehra (54511), Ms. Rhythm Maini (55765) Members: Ms. Garima Tamta (57788), Mr. Akash Joshi (57822), Ms. Sakshi Rawat (59303), Ms. Yashita Manori (59033)		
Literary Committee	Heads: Ms. Palak Chaturvedi (54512), Ms. Riya Makker (55841) Members: Mr. Vikas Kumar (58179), Ms. Aditi Bisht (58080), Ms. Sanjana (59104), Mr. Harshit Durgapal (59271)		
Cultural Committee	Heads: Ms. Smrutirekha Pati (54454), Ms. Simran Mourya (56918) Members: Mr. Ashok Chaudhry (58217), Ms. Mahima Gaira Bisht (58134), Mr. Divyansh Pokhriyal (58711), Ms. Samridhi Saklani (59004)		
Technical Committee	Heads: Mr. Paras Arya (54395), Ms. Shruti (55748) Members: Mr. Lavesh Kag (58202), Ms. Akshita Kandari (57815), Mr. Anubhav Joshi (59040), Ms. Prachi Farswan (59045)		
Fine Arts and Decoration Committee	Heads: Ms. Bhoomi Sonkar (54518), Mr. Surendra Dhami (55734) Members: Mr. Jagrat Joshi (57796), Ms. Shalini Bisht (58091), Ms. Anshika (59054), Ms. Shreya Goswami (59095)		
Logistics Committee	Heads: Mr. Anoop Kumar (54483), Mr. Vishal Gaur (55898) Members: Mr. Jalaj Bisht (58131), Ms. Ayushi Aswal (57924), Mr. Abash Mayank (59012), Mr. Anshul Thapa (58363)		
Sports Committee	Heads: Mr. Mukul Singh Parihar (54414), Mr. Paras Bhatt (56420) Members: Mr. Sandeep Chopra (58310), Ms. Neha Pandey (57727), Mr. Lalit Rana (59073), Ms. Kanishka Singh (59056)		

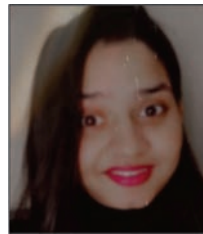
The College Newsletter Team 2022



Mr. Aakarsh Nath



Mr. Gaurav Kabdwal



Ms. Jiya Pathak



Ms. Kumkum



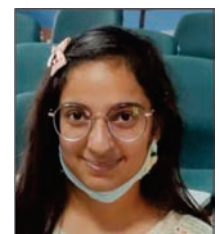
Ms. Pragya Gargya



Ms. Priyanka Karki



Mr. Priyanshu Dixit



Ms. Rhythm Maini



Ms. Riya Makker



Ms. Simran Arya



Ms. Sushma Swami



Ms. Tanishqa Lodhi



Ms. Tanvi Gupta



Ms. Vartika Gupta

The Pass Out Students of Year 2022

B.Sc. Food Technology

Details of Passed Out U.G. Students of B.Sc. Food Technology (Batch 2018)

S.No.	Name	Id. No.	Email Id
1.	Aastha Bajaj	53286	bajajaastha74@gmail.com
2.	Abhijeet Rai	53284	abhijeet.ra17@gmail.com
3.	Akanksha Joshi	53250	www.akkinoshi5@gmail.com
4.	Ankita Jukaria	53161	ankitajukaria@gmail.com
5.	Ayushi Chandra	53287	chandraayushi234@gmail.com
6.	Bhavesh Tiwari	53292	bhawesh.harsh@gamil.com
7.	Disha Arora	53298	arorad841@gmail.com
8.	Jiun Singh Kahlon	53283	jkeppi73@gmail.com
9.	Jujhar Singh	53289	jujharsinghm981@gmail.com
10.	Kajol Martoliya	53290	kajolmoofaliya1999@gmail.com
11.	Mansi Saklani	53296	tussharsaklani@gmail.com
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13.	Pooja Chand	53300	chandpooja100@gmail.com
14.	Pragya Suyal	53295	suyalppp8731@gmail.com
15.	Priyanka Panwar	53299	priyankapanwar199@gmail.com
16.	Rashmi Fuloriyer	53281	rashmifuloriya@gmail.com
17.	Rishabh Joshi	53278	rishabho1005@gmail.com
18.	Rohit Ratnakar	53288	rohitratnakar21@gmail.com
19.	Samriddhi Kohli	53293	samriddhikohli14@gmail.com
20.	Shivani Nainwal	53282	nainwal2223@gmail.com
21.	Suraj Kumar	51714	kumarsurajsemwal@gmail.com
22.	Tanvi Negi	53279	devoh231114@gmail.com

B.Sc. Agriculture

Details of Passed Out U.G. Students of B.Sc. Agriculture (Batch 2016)

S. No.	Name	Id. No.	Email Id
1.	Bhupesh	49904	bhupeshnegi12@gmail.com
2.	Naveen Yadav	49963	naven123giveup@gmail.com
3.	Sandeep Pandey	49888	spandey3007@gmail.com

B.Sc. (Hons.) Agriculture

Details of Passed Out U.G. Students of B.Sc. (Hons.) Agriculture (Batch 2018)

S. No.	Name	Id. No.	Email Id
1.	Aastika Pandey	52945	aastikapandey3110712001@gmal.com
2.	Abha Belwal	53017	abha.21belwal@gmail.com
3.	Abhishek Kumar	53098	abhisingh.king@gmail.com
4.	Abhishek Tamta	52975	abhishektamta2728@gmail.com
5.	Abhyudaya	53087	tiwaryabhyudaya@gmail.com
6.	Aditi Saxena	53040	manjulaxaxena196@gmail.com
7.	Akansha Gangwar	53008	gangwarhimanig2@gmail.com
8.	Akash Kumar	53104	www.akashdbz@gmail.com
9.	Akhilesh Jayal	53033	akhileshjuyalooo@gmail.com
10.	Aman Kumar Bharti	53020	amanbharti.gbpuat@gmail.com
11.	Aman Negi	53013	rajendranegi7270@gmail.com
12.	Aman Saini	53107	amansainidahiya1998@gmail.com
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14.	Anjali Mehta	52965	anjalimehta2111@gmail.com
15.	Ankita	53099	ps7684581@gmail.com
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17.	Anukul Singh	53028	anukal8077@gmail.com
18.	Anureet Kaur Sandhu	53042	anureetkoursandhug@gmail.com
19.	Aparna	53025	75nisha57@gmail.com
20.	Archit Sah	52995	architsah1397@gmail.com
21.	Arundhati Semwal	53052	arundhatisem96@gmail.com
22.	Ashika Ansari	53046	ansariashika7@gmail.com
23.	Ashwariya Laxmi	53106	ashwariyalaxmi6@gmail.com
24.	Atul Meena	53093	meenaatul26@gmail.com
25.	Ayush Kumar Shah	52980	ayushsah102@gmail.com
26.	Balram	53086	talarbalram@gmail.com
27.	Barsha	53081	janardan.821@rediffmail.com
28.	Bhagirath Jha	53080	jha6096@rediffmail.com
29.	Bhaskar Giri	52990	bhashkargiri666@gmail.com
30.	Chandra Shekhar	53291	chandrashekhar937@gmail.com
31.	Chetan Joshi	52996	joshichetan387@gmail.com
32.	Deepak Joshi	53003	gcjoshi4@gmail.com
33.	Deepak Singh Chauhan	51709	chauhankrishna271@gmail.com
34.	Deepali Arya	52984	aryadeepali1999@gmail.com
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36.	Deepika Kanyal	52952	deepik.kanyal1@gmail.com
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38.	Devanshu Kumar	53053	devastwatiyar17@gmail.com

39.	Dishita Aseri	53088	dishitaaseri@gmail.com
40.	Divya Raj	53083	shankar900612@gmail.com
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42.	Gaurav Pandey	53012	gp0511087@gmail.com
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44.	Geetika Joshi	52955	www.geetikajoshi38@gmail.com
45.	Harshita Rana	53019	aqua_rizaentr2006@yahoo.com
46.	Hemant Sharma	53030	hemantsharma.hld@gmail.com
47.	Himanshu Bhakuni	53015	himanshubhakuniz000@gmail.com
48.	Himanshu Kumar Arya	52989	himanshuaryabageshwar@gmail.com
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50.	Jyoti	52994	chandrajyoti161@gmail.com
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52.	Kanchan Kotiyal	51426	kanchankotiyalo8@gmail.com
53.	Kartike Singh	51672	kartikakeyasingham@gmail.com
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