



IDP-NAHEP Pantnagar Updates

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

No. 41
February 2023

Message of IDP Leader, GBPUAT, Pantnagar

Commemorating the QS Ranking Achievement and the Significant Role of IDP-NAHEP

The emergence of G.B. Pant University of Agriculture and Technology, Pantnagar in the World QS Ranking 2022 has once again established the relevance and significance of the contributions made by the various stakeholders associated with this six decade old University. To commemorate this important achievement and the crucial role of the IDP-NAHEP project in getting this achievement, a document called Pantnagar Yearbook has been published. The Yearbook captures the key aspects which led to this remarkable achievement including the testimonials of faculty members, Deans and Directors of the University and other stalwarts from across the country who have been a part of this achievement. This precious document has also been compiled, designed and published by IDP-NAHEP, Pantnagar. I wholeheartedly appreciate this effort of IDP Pantnagar team and I am sure that the academic transformation which has been led by this team will surely bring many more laurels for the University.



(M. S. Chauhan)

Pantnagar Yearbook 2023 Released by Vice Chancellor

Documenting the Inclusion of GBPUAT in QS World University Rankings by Subject 2022



G B Pant University of Agriculture and Technology, Pantnagar emerged as the sole Indian Agricultural University to appear in QS World University Ranking with 361st rank globally. The emergence of University at the international level could be credited to

increased global network, excellent performance of students in academics as well as extra-curriculars, consecutive awards and accolades received by university, enhanced number of quality research publications, opportunities of exposure and trainings

(continued on page 2)



(continued from page 1)

at advanced foreign laboratories and research centers for students and faculty, systematic inclusion of online teaching structures and skills in the classroom teaching and so on and so forth. In the last few years, there has been noteworthy improvement in University Ranking at both national as well as International level, due to focused and collective efforts especially after the initiation of the World Bank funded ICAR Project, IDP-NAHEP at Pantnagar University. The Pantnagar Yearbook has been published by Institutional Development Plan, NAHEP, GBPUAT, Pantnagar under the leadership of Dr. S.K. Kashyap, P.I., IDP-NAHEP and Dean, Agriculture.

The Editorial Team of the Yearbook is comprised of four illustrious Pantnagar Stalwarts, Dr. A.N. Mukhopahyay, Former Vice-Chancellor, AAU, Jorhat and Former Dean Agriculture, GBPUAT, Pantnagar; Mr. Rajendra Barwale, Chairman, Mahyco Grow (Alumnus Batch 1973); Mr. Vinay Varman, Retd. IFS Officer (Alumnus Batch 1975); and Dr. Shweta Gupta, Director, Arohana Management Solutions (Alumna Batch 2011).

The eminent academic institutes and stalwarts from across the globe showered words of immense pleasure to see an agricultural University rise up to the world's expectations.

Reflections for Pantnagar Year Book 2023 by Several Esteemed Dignitaries



The concept of publishing the Pantnagar Yearbook to commemorate the achievement of QS Ranking is a brilliant initiative. I sincerely hope that the Pantnagar Scientists, students and staff will continue to excel in their field of excellence and garner many more accomplishments.

Lt. Gen. Gurmit Singh, Hon'ble Governor of Uttarakhand

I congratulate the Pantnagar team for putting together the threads of this remarkable success in the form of an yearbook. I am certain that Pantnagar Yearbook will serve as a guiding reference as well as an inspirational anecdote for all readers, especially academic leaders in higher education institutes of agriculture and allied sciences.



Dr. R.C. Agarwal, DDG (Agricultural Education), ICAR



It is profound privilege to look into this precious document "Pantnagar Yearbook 2023" which is a testimony of agile efforts of all the sectors and segments of the University. Publication of Yearbook is carried in all prestigious institutions across the world which has deep academic value. I believe, the University will continue with this grand initiative of bringing up the Yearbook each year which will be a precious testimonial of Pantnagar efforts toward service of humanity.

Mr. Vinay Varman, Alumnus Batch 1975, Retd. IFS Officer

This precious volume of year book is yet another testimony of initiatives and novelty which has beautifully captured the multi directional efforts of Pantnagar towards fulfilling its vision, mission and goals. It was a treat, going through the golden pages of this document. My greetings and blessings to all the contributors who carved the moments so artistically and aesthetically that the volume has emerged as a memoir of the future.

Dr. A.N. Mukhopadhyay, Former Vice Chancellor, AAU, Jorhat and Former Dean Agriculture, GBPUAT, Pantnagar



The book is quite informative and depicting the golden glories to recent achievements of Pantnagar, showing action, commitment and contribution of G. B. Pant University of Agri. & Tech, Pantnagar - the first and foremost agriculture university of the nation. The learned editors associated with the university have beautifully highlighted the achievements of the university in recent past indicating how this university ranked in the QS World Ranking.

Dr. Anil Kumar, Director Education, Rani Lakshmi Bai Central Agricultural University, Jhansi (UP)

International Faculty Exchange Programme of IDP Pantnagar is in Full Swing

The Institutional Development Plan-National Agricultural Higher Education Project (IDP-NAHEP) in Pantnagar has worked diligently to organize an international exposure visit for faculty members on a plethora of cutting-edge areas in the agro and allied sphere under the International Faculty Exchange Program to improve the quality and relevance of agricultural higher education.

In this regard, from December 14, 2022, to January 14, 2023, Dr. Rajeev Kumar, Senior Research Officer, Department of Agronomy, College of Agriculture, visited the Department of Analytical Chemistry, Connecticut Agricultural Experiment Station (CAES), New Haven, United States of America (USA). CAES is the first agriculture experiment station in the USA and

invented vitamin A. Also, it is one of the centers of excellence in the field of Nano fertilizers. During this period, Dr. Kumar got the opportunity to know the details about the theme projects running in the department like the Centre for Nanoscale Phosphorus Delivery (CeNaPD) and the Centre for Nanoscale Sulfur Research (CeNaSR), etc. He was assigned to work on *“Formulations and Characterisation of Chitosan-TPP-Cu nanoparticles and test their impact on Phosphorus runoff in CAES soils”*. He also learn the varoius tools and techniques used in nanoparticles formulations like *Dynamic Light Scattering, transmission electron microscopy, FTIR*, etc. He also co-authored a study with CAES scientists for frontiers in chemistry that has a NAAS rating of over 10.

3 Months Exchange Programme Undertaken by Dr. Sweta Rai in Washington State University, USA

I am highly grateful to IDP-NAHEP for providing this great opportunity under the Faculty Exchange Programme. International Exposure is helping me to learn different new laboratory techniques to strengthen my skills in the field of research and teaching. During the first month of this visit, I have explored different fields of research. Currently I am working as Adjunct Faculty in the department of Biological Systems Engineering, Washington State

University, Pullman, WA, USA on Fabrication of Polymeric films (Biodegradable Packaging Film/Edible Packaging Films). With this, I will be working on the Effect of Thermal Processing on Encapsulation of Bioactive Compounds in Different foods. This visit is helping to gain exposure to diverse cultures, study environments and establish multidisciplinary links to create professional development activities.



(continued from page 3)

One Month Exchange Programme Undertaken by Dr. Rajeev Kumar in Agricultural Experiment Station (CAES), New Haven, USA

This visit provided a platform for me to share my knowledge and thoughts across the discipline. I am able to establish international connections between scientists to look for solutions to problems that society as a whole and agriculture in particular are facing thanks to the global scientific community that is tied to agriculture, particularly nanotechnologists. This visit would help me to develop new thoughts by making interlinking disciplinary thoughts related to biological and agricultural sciences and provide a new avenue to utilize our skills for the benefit of society. I also explored the opportunities for our UG, PG and Ph.D student to get fellowship and admission for higher



studies in CAES, USA. Even one month is a very short period to learn any tools and techniques for a valid conclusion but it is recommended that such type of visit should be arranged either short or long-term duration which may help to change the skill of visitor.

IDP-NAHEP Explore the Possibilities of Collaboration with Israel Agricultural Attache at Embassy of Israel, Mr. Yair Eshel Visited Pantvarsity

To explore the possibilities of collaboration between the two leading nations in context of agriculture i.e., India and Israel, IDP-NAHEP, Pantnagar organized a visit of Mr. Yair Eshel, Agriculture Attache at Embassy of Israel to GBPUAT, Pantnagar on January 23-24, 2023. During the visit, Mr. Eshel observed and experienced the facilities of IDP-NAHEP at University Centre which included Pantnagar Museum, Virtual Reality Lab, Video Lab, Faculty Development Centre etc. built to provide exposure, trainings and orientation to students and teachers. Mr. Eshel felt overwhelmed looking into the design and concept of Pantnagar museum and appreciated the rigorous and meticulous efforts took under the project in a span of 3-4 years for the sake of students and teachers and for bringing up transformational changes at the University level. Mr. Eshel also visited hydroponics and aeroponics unit at College of Agriculture and various research centers of the University.

The visit was followed by an interaction meeting with Hon'ble Vice-Chancellor, Dr. M.S. Chauhan in which discussions regarding prospects of agricultural innovations and infrastructural advancements in University owing to its huge pool of human resources and land area were held, also possibilities of collaboration at different levels was discussed.



Thereafter, a meeting was organized with the team of IDP-NAHEP in which Dr. S.K. Kashyap, Dean Agriculture and P.I., IDP-NAHEP presented proposals for International Exchange Programme of Faculty and Students at Israel to Mr. Eshel. The meeting was attended by Dr. S.K. Guru, Nodal Officer, Academic Component, Dr. Alka Goel, Coordinator, Language Lab Component, Dr. Anita Rani, Coordinator, E-Content Development, Dr. Manisha Rani, Nodal Officer Procurement, Dr. Aman Kamboj, Project Scientist, and team of RA/PDF. Mr. Eshel was very positive regarding his visit to Pantnagar. IDP-NAHEP is actively exploring the possibilities of collaboration with international research institutions and universities leading in the field of innovations and research in agriculture and allied sciences in relation to the exchange programs for students and teachers.

IDP-NAHEP Organised an Interactive Session on Defence as Career: The Selection Process

Serving one's country by joining the defence services like the Army, Navy, and Air Force gives you pride and valour. In Indian Air Forces, there is plethora of opportunities, for guiding students towards better career opportunities and job prospects in the Indian Air force. IDP-NAHEP organised an interactive session on *Defence as Career: The Selection Process for students of the university* at University Centre NAHEP on January 19, 2023. The expert of the session was Group Captain Vani Misra. She is an illustrious alumna of Pantnagar University. Dr. S.K. Kashyap initiated the session with a welcoming note to guest speaker Capt. Vani Misra.

To begin the session, Group Capt. Vani introduced the students to the History of Indian Air Force through a video. The aim of Indian armed force is 'Touch the Sky with Glory', which has been taken from the eleventh chapter of the Shrimad Bhagavad-Geeta. She highlighted the role in terms of the nation's security and maintaining bilateral relations by regular army exercises. Group Captain Vani shared her journey of becoming an IAF officer and focused on certain core values that are ingrained into Air Force Officers during their training. She said as warrior, you learn loyalty, duty, service, honour, integrity and courage, respect them and, from then on, live them every day in everything you do. Besides being a noble service to the motherland and an honourable profession to be proud



of, life in the IAF gives variety, adventure and challenge. It provides the best of facilities, be it recreation, sports, medical, education and institutes. The lifestyle imbues in us a healthy Wellbeing and a regime for life. Furthermore, she elaborated on the various career options available in the defence services. There are different ways to join the IAF. The IAF aspirants can join the Air force services through exams like NDA, AFCAT, CDS and more. Capt. Vani Misra responded to the students on their queries regarding preparation of written exams and SSB conducted by IAF in Q&A session. Dr. Aman Kamboj, Project Scientist, IDP-NAHEP gave concluding remark for the insightful session. About 40 undergraduate students were participated in the session.

Brief Profile of Group Captain Vani Misra

Group Captain Vani Misra from Indian Air Force with almost 29 years of experience. She is an alumna of Pantnagar University. She has done B.Tech in Electrical Engineering from College of Technology in 1989. She did her M.Tech from IP University Delhi and MBA from IIM Ahmedabad. She is an outstanding officer with exceptional professional knowledge and skills achieved through sheer hard work and dedication. She has been Commanding Officer of two different Units in IAF. In acknowledgement of her capabilities, her Unit achieved 100% serviceability throughout her tenure. For her exceptional devotion to duty, commitment and dedication to service, high level of professional knowledge and leading her Units by example to achieve the highest standards, she has been awarded by the Chief of Air Staff. She has been an avid athlete and basketball player and was University Captain at Pantnagar. She also plays racket games like TT, Badminton, Lawn Tennis. Group Capt. Vani Misra has also activated her adventurous self and enjoys undertaking Aero and water sports organised by Air Force.



Journey of International Exposure and Learning Continue Under IDP-NAHEP

Faculty Exchange Program : Upcoming Visit to University of Illinois, Urbana-Champaign, USA

IDP-NAHEP, Pantnagar has been constantly working on providing unique opportunities for faculty members to expand their research and teaching profile to improve the quality and relevance of agricultural higher education. In this context, the IDP-NAHEP, Pantnagar team has made tremendous efforts for an international exposure visit to faculty members on various emerging areas in agriculture and allied domain under the International Faculty Exchange Programme of IDP-NAHEP.

In this regard, the collaborations with institutions have been also aligned for this purpose. A total of 22 faculty members have been selected in different age groups. The faculty members have been selected on the basis of selection criteria of approved guidelines of project implementation unit, ICAR and World Bank. Accredited faculty members were eligible to apply in three age groups less than 40 and below 50 years, and above 50 and below 58 years. The IDP-NAHEP criteria for selection of faculty members for international exposure visit was that the faculty should have two publications in any journal with NAAS rating 7 or above and each research paper must have at least 10 citations. The letter of consent from the overseas institutions for their time bound engagement was also mandatory. The faculty members were interviewed by a committee constituted by the vice chancellor for final selection. Now seven faculty members are set to move across to their foreign destiny in the month of

February. Dr. Sundip Kumar, Professor, Dept. of Molecular Biology and Genetics Engineering, College of Basic Sciences & Humanities, Dr. Ranjan Srivastava, Professor, Dept. of Horticulture, College of Agriculture, Dr. Gurdeep Bains, Professor, Dept. of Plant Physiology, College of Basic Sciences & Humanities, Dr. Vipul Gupta, Professor, Dept. of Fish Harvest and Processing Technology, College of Fisheries, Dr. Navneet Pareek, Professor, Dept. of Soil Science, College of Agriculture, Dr. A.K. Upadhyay, Professor, Dept. of Veterinary Public Health and Epidemiology, College of Veterinary & Animal Sciences, Dr. Sandeep Arora, Dean, Professor, Dept. of Molecular Biology and Genetics Engineering, College of Basic Sciences & Humanities are destined to visit University of Illinois, Urbana-Champaign, USA.

In essence, the international programme would provide an opportunity to improve international research and teaching collaboration, and academic leadership for faculties of both the institutes. Faculty members will gain exposure to diverse culture, study environments, pedagogical and innovative teaching methods, entrepreneurship skills all of which are extremely important in this stage of globalization. This will improve faculty competency and commitment, as well as make agriculture education more effective in terms of teaching and research learning. It will also provide a means to create professional development activities that will improve the university's overall efficiency and efficacy.



Students Learnt Techniques and Tricks of Systematic Note Writing in IDP Writing Studio

Being a student, the ability to write clearly and effectively is an essential skill. This skill is especially important when it comes to technical writing, and it is increasingly important in present scenario. It is a skill to convert complex topics in a clear, concise, and accurate way. In this sense the techniques are systematic, meaning that they are preconceived and shape the entirety of the notes that will flow from them. A systematic note writing involves breaking the topic down into individual components so that you can learn it more easily. This approach helps in understanding what need to do to complete a task or achieve a goal. A five days workshop from January 04-08, 2022 was organized under IDP writing studio on the topic *Systematic Note Writing: Techniques and Tricks*. Dr. Shweta Gupta, Fellow- IIM Indore, Director Arohana Management Solutions Pvt. Ltd., Dehradun was the resource person for the workshop. Dr. Shweta initiated the session by highlighting the importance of Systematic note writing. Moving forward, the expert detailed regarding various reliable, authentic and relevant sources of content to be referred for any writing assignment. She advised the students to observe and prepare a structured outlining of the content. Depending on the learning style students can use a variety of strategies like definition division and classification, compare and contrast, cause and effect



or process analysis. Before writing these answers students need to think about the topic and organise their thought in a logical way. Systematic steps of writing research based articles were discussed in the workshop which included collection, analyses and synthesis.

The session was completely dedicated to nurture the participants for various tips and techniques to take notes during competitive exam preparation, thesis writing, classroom lectures, while listening and reading text books were taught to the participants. The workshop ensured the participation of students through multiple individual & group activities, assignments and brainstorming sessions. A total of 55 students enthusiastically participated in the workshop and learnt through expert guidance, peer group learning and group activities.

IDP Pantnagar Connected with Indigenous Folklore Group to Aware the Students to Save Traditional Knowledge System

Folklore can help to imbibe the right type of education to the citizen of our country. Students may inculcate a sense of responsibility through folklore. They may learn to discipline their life as most of the folklore leaders do in their tales. On the occasion of National Youth Day, an Interaction Session on the topic *“Ingenious Folklore to Save the Traditional Knowledge System”* was held on January 12, 2023 at University Centre, NAHEP Building. About 30 students participated in the session. The experts of the session were Gawaniyars the tribal folk artists of Bikaner, Rajasthan. In the beginning of the session, they highlighted the importance of traditional music and various instruments related to folk music. They emphasis the five basic elements of nature i.e. *Earth*

(Prithvi), Water (Jala), Fire(Tejas), Wind (Vayu) and Space (Akasha) and gave an insight about composition of tones, used in folk songs and tales. They said Folklore with all its material may serve a special purpose in countries like India where its continuity is still unbroken from times immemorial. It is believed to be true as a historical fact. The various characters, events and ideals depicted in traditionally inherited than the actual happenings of day to day life. Folklores can be used as an ideal material in training the individual from his/her childhood. For the concluding remark Dr. S.K. Kashyap, P.I. IDP-NAHEP stated that different traditional folk songs, proverbs, tales etc. can be focussed in such a way as to inculcate the moral and spiritual sense in young minds.



IDP-NAHEP Efforts for Outcome Based Academic Transformation

Dr. S.K. Kashyap

Dean, College of Agriculture/ P.I., IDP-NAHEP, Pantnagar

The mandates of the IDP-NAHEP project at Pantnagar University are one of its kind targeted towards revamping the teaching-learning ecosystem of the University. In order to successfully fulfil the mandates and achieve the desired output-outcomes, several unique initiatives were taken. One amongst them was the constitution of the University Ranking Monitoring Committee under PI, IDP-NAHEP, Pantnagar. Since the beginning of the project, it was envisioned that global ranking parameters (which align with IDP mandates) should be kept in mind while planning the IDP activities. As a result, one of the direct impacts of the project activities was observed on the improved ranking of Pantnagar University at national and international levels. QS Ranking 2022, ICAR Rank 1 among SAUs, ICAR Overall Rank 4 - these are all an outcome of structured efforts of meeting the ranking parameters. The IDP Pantnagar considers the improvement in University ranking as an important milestone and aspires to achieve many more such outcomes in future.



The Main Events of February 2023

S. No.	Event	Proposed Date	Venue	Nodal Unit	Convener
1.	Orientation Programme Workshop for Foreign Exchange Programme	02.02.2023	University Centre- NAHEP Building	Academic Team	Dr. S.K. Kashyap, College of Agriculture
2.	Proficiency in Academic Writing: Preparing for Foreign Exposure Visit	06.02.2023 to 08.02.2023	University Centre - NAHEP Building	Academic Team	Dr. S.K. Guru, College of Basic Science and Humanities
3.	Offline Guest Lecture on Agriculture Research: An Emerging Career Option	09.02.2023	University centre - NAHEP Building	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities
4.	Higher Education and Internships Abroad in Veterinary Sciences: Options and Strategies	10.02.2023	Online	Academic Team	Dr. S.K. Guru, College of Basic Science and Humanities
5.	Guest Lecture on Packhouse Technology Automation: Equipment and Operations	11.02.2023	Online	Academic Team	Dr. S.K. Guru, College of Basic Science and Humanities
6.	2 Week Crash Course on Community Science for JRF Aspirants	06.02.2023 to 20.02.2023	Online	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities
7.	2 Week Crash Course on Agriculture for JRF Aspirants	06.02.2023 to 20.02.2023	Online	Academic Team	Dr. S.K. Guru College of Basic Science and Humanities
8.	Offline Guest Lecture Remote Sensing and GIS Application in Agriculture	11.02.2023	University centre - NAHEP Building	Academic Team	Dr. S.K. Guru College of Basic Science and Humanities
9.	Interactive Session on Agripreneurship : Opportunities & Scope	21.02.2023	Online	Academic Team	Dr. S.K. Guru College of Basic Science and Humanities

Contact: Dr. S.K. Kashyap, P.I., IDP-NAHEP, Pantnagar and Dean, College of Agriculture, Pantnagar

Website: <http://www.idppantnagar.in> **Instagram:** @idp_pantnagar **Email:** nahep.idp.pantnagar@gmail.com

Keep visiting the University Centre for updates!