



IDP-NAHEP Pantnagar Updates

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

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Message of IDP Leader, GBPUAT, Pantnagar Strengthening the Weak Link to Improve Agricultural Scenario

The daily Evening Classes of IDP, Pantnagar is a versatile and rare avenue of value-addition for teachers and students. It is praiseworthy to see that IDP, Pantnagar has organised more than 60 evening classes through regular language proficiency sessions, soft skill and other need-based trainings for different disciplines at University Centre in last two months to nurture University students. The trainings on critical thinking, innovative outlook, career opportunities, robotics in agriculture, image consultancy, fashion designing and communication skills were especially impactful. The support of experts and alumni from all across the country and abroad in organising these events at Pantnagar has been wonderful. The enthusiasm of students towards these late-evening sessions has been specially encouraging. The University has always focussed towards nurturing critical talents among the students to bring best products. The global market demands technically proficient graduates with adequate awareness and excellent soft skills. The education system of the University has been nourishing the subject command and hands-on skills among the students in best possible manner and the higher-order cognitive and soft skills are being supplemented through these well-designed and proficiently implemented IDP activities which will invariably yield into the value-addition among the Pantnagar products.



(Tej Partap)

The IDP-NAHEP Pantnagar Benefits 500 Students Across the University in Just Two Months

In just two months since its launch at Pantnagar, the IDP-NAHEP, Pantnagar has organised ten need-based special events besides the regular classes and courses launched to directly benefit the University students across the colleges under different components covering almost 500 students of the University. The workshops organised under mentorship of renowned experts from industry and academia have received a very encouraging feedback from the students. It included mind training workshops to enhance higher order cognitive skills like the workshops on Critical



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Renovate the IDP Building Contest Organized for University Students

The IDP building is proposed to be set up as green building such that it emerges as environmentally responsible and resource-efficient. In the light of the aforementioned planning, a University level contest 'Renovate the IDP Building Contest' was organized by Innovation and Incubation Cell of IDP-NAHEP, Pantnagar on November 15, 2019 at University Centre. The jury members of the contest were Dr. A. K. Upadhyay, Coordinator, Innovation and Incubation Cell and Professor and Head, Veterinary Public Health and Epidemiology; Dr. Ranjan Srivastava, Professor and Head, Department of Horticulture, College of Agriculture; and Dr. Ravi Saxena, Professor, Department of Electrical Engineering, College of Technology. The ideas were assessed based on different parameters such as uniqueness, feasibility, readiness to implement the idea, budget estimate and presentation skills. Students came up with diverse innovative ideas for the renovation of building such as the installation of a solar tree for utilizing renewable energy source. Detailed plans of wall painting, glass painting, terrarium, vertical garden and rock garden were suggested for enhancing the aesthetics and greenery of the building. Further, with respect to energy conservation, methods of resource and waste management, hydroponics, installation of plastic

recycling machine and heat recovery wheel were also proposed. The winner and runner-up teams of the contest were from College of Agriculture. The team led by Ms. Abha Belwal was declared as the winner for proposing an excellent idea of hanging garden, heat recovery wheel, plastic recycling machine, rooftop solar panels and kiosks. The runner-up team led by Mr. Anuj Banola proposed the creation of a vertical garden out of waste, adopting the concept of hydroponics and terrarium. Dr. Ranjan Srivastava, one of the jury members, heartily appreciated the students for proposing such innovative and efficient ideas that would indeed enhance the overall structure and functioning of the building. Furthermore, another jury member, Dr. Ravi Saxena admired the creativity and out of box thinking of the students and praised the efforts of students in conceptualizing and presenting their thoughts in such a systematic and convincing way.



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Thinking, Innovative Outlook and Communication Skills with experts, practitioners and alumni from IARI, IIM, industrial houses and agro-industries. Ms. Shruti Kashyap, a student of B.Sc. Agriculture, third year from College of Agriculture says that these trainings have been the eye-opener for her as she could manage to think beyond the self-designated limits of her mind towards clearer image of her future profile. The sensitization on Language Skills with renowned language experts was especially appealing which continued in form of Certificate Courses in French, German and English which is being attended by more than 150 students from across the University. It is for the first time in the University that regular Evening Classes (6 pm to 8 pm) are running successfully for which dedicated bus service is picking the students from their

respective hostels and dropping them back after the classes in night. Ms. Simran Gupta, a student of B.Sc. Community Science, third year from College of Home Science says that such evening classes are a wonderful experience in the Pantnagar life when even UG students are getting an opportunity to utilize their evening time in such a productive manner. The magnificent talks and interactions have also nurtured the UG students. The Creativity Contests such as IDP Building Renovation Contest and IDP Guitar and Band show by University students drew more than 100 talents to showcase their wonderful personality traits on a larger platform. The events are being regularly documented in digital form and the impact and outcome of each event is being critically compiled and analyzed by a dedicated team.

Sensitization Workshop Organized Under NAHEP on Innovation and Incubation Based Ecosystem

Innovation and Incubation Centre of IDP-NAHEP Pantnagar is a platform focused on fostering and promoting the entrepreneurial spirit of students who are start-up enthusiasts by providing a healthy ecosystem to promote their ideas and start-ups into successful entrepreneurial ventures. In this regard, many events have been planned and conducted. A Sensitization Workshop of Registered/Unregistered Innovators was organized on November 7, 2019 by Innovation and Incubation Centre. The one day workshop aimed to sensitize and aware the students about the prospects of entrepreneurship and the facilities provided for the same by Innovation and Incubation Centre.

The industry expert who graced the occasion were Mr. Jaiprakash Narain, CEO of Century Pulp and Paper; Mr. Avdhesh Kumar Singh, Partner, SAB Herbs and Nutraceuticals; Mr. Rajesh Saxena, Owner of Adarsh Polypack; and Mr. Manoj Saxena, Plant Head of Suprajit. Dr. Tej Partap, Vice-Chancellor, GBPUAT, Pantnagar; Dr. S.K. Kashyap, PI, IDP-NAHEP, Dr. A.K. Upadhyay, Coordinator, Innovation and Incubation Centre and other team members of Innovation and Incubation Centre were also present for the workshop. Dr. A. K. Upadhyay



detailed the concept and thought process behind the establishment of Innovation and Incubation Centre, and said that its main objective is to inculcate an attitude of innovation and provide skills of entrepreneurship to the student community of Pantnagar, so that they traverse the path of being job seekers to job providers.

Students from different colleges attended the workshop and presented their start-up ideas to the experts. These ideas were appreciated by industry

experts which was followed by their useful suggestions on varied aspects of business management. Mr. Avdhesh Kumar Singh emphasized on the continuous nature of innovation which must be reflected through consistent focus on customer experience and variations in product/service offerings. Further adding to it, Mr. Manoj Saxena suggested that as entrepreneurs we must create products/services that can be accepted in the market, by doing enough market research before launching anything new. He also highlighted that how can we develop risk taking capabilities and why it is important to manage risk in order to engage with emerging opportunities. In context of emerging industries and prospective entrepreneurial options, Mr. Rajesh Saxena endorsed the possibilities associated with packaging industry, especially with respect to development of biodegradable plastic or other alternatives. Summing up the perspective of industry experts on the immense potential of student entrepreneurial ventures, Mr. Jaiprakash Narain reemphasized the significance of continuous innovation for survival of all businesses. He further stated the importance of getting aligned with industry partners for commercialization of ideas to



achieve the intended social benefit. As a concluding note, Vice-Chancellor, Dr. Tej Partap called for hand holding of industry for setting up an innovation-based ecosystem, as right industry partner can help de-risk technological development and even support with scaling up of the venture. In addition, he also suggested about generating a publication of possible entrepreneurial opportunities and other possible research avenues, which might help students to generate more ideas.

Advanced Communication Skills Training Conducted by Facilitators from IARI and IIMA

A 12-hours training on *Communication Skills: Learning the Art of Expression* was organized from November 8-10, 2019 for UG students of Pantnagar. Communication enthusiast experts from academia led the training and guided the students on various aspects of formal communication and public speaking. Dr. Girijesh Singh Mahra, an alumnus of Pantnagar and Banaras Hindu University, who is currently working as a Scientist in Division of Extension Education at Indian Agricultural Research Institute, New Delhi was one of the experts. A gifted orator, and an excellent public communicator, he introduced the participants with some fundamental concepts of communication and then had a practice session on public speaking. The training pedagogy which he utilized was completely based on experiential learning and participant interaction. The participants felt enthused during his fun-filled, learning sessions and even had an engrossing discussion session. The other facilitator for the training was Mr. Ankush Chawla, who is also an

alumnus of Pantnagar, and is currently pursuing MBA in Agribusiness from the prestigious Indian Institute of Management (IIM), Ahmedabad. Being a young, dynamic individual having corporate experience, he shared his insights on the importance of communication in professional spaces. He undertook practice sessions on group discussion and personal interviews which are a gateway to corporate world. Even, Dr. S.K. Kashyap, Senior Professor and Head of Department, Agricultural Communication, College of Agriculture, Pantnagar conducted some interesting communication exercises, through which he explained the important concepts for effective communication. Towards the end of the training programme, the students were given some holistic strategies for improving their communication skills. The training was appreciated by students, as communication skills is an important component of one's personal and professional skill set, and can be extremely instrumental for a successful career.



Student Verses

- I have joined German classes with a motive to learn a new language. It has been an extraordinary feeling to speak in a new language which, I never understood before. The classes are wonderful and indeed it is a great opportunity for me.

(Saurabh Bisht, College of Technology, IVth year)



- I want to pursue my studies in a foreign institute. Indeed a foreign language will increase my chances to get into a good university. It was my dream to learn French and I have received the opportunity through IDP-NAHEP.

(Jaanvi Kochar, College of Home Science, IIIrd year)



IDP-NAHEP Pantnagar Begins Its Journey of Foreign Collaborations, Industry Academia Interface, and Academic Performance Strengthening

1. Vice-Chancellor Dr. Tej Partap with PI, IDP Dr. S.K. Kashyap and Nodal Officer (Academic) Dr. S.K.Guru participated in Australia-India Education Summit in New Delhi on November 22, 2019 to materialize the foreign exchange of student and faculty under IDP with leading Australian universities. The event was attended by Australian Education Minister Mr. Don Tehan and Indian HRD Minister Dr. Ramesh Pokhriyal Nishank. Dr. H. J. Shiva Prasad and Dr. Jyothi Prasad, the Professors coordinating the SPARC programme of Pantnagar also participated in the event from the University.



2. The Vice-Chancellor of Western Sydney University Prof. Barney Glover hosted a dedicated meeting with IDP Pantnagar team at Hotel Imperial, New Delhi to finalize the exchange programme and talked in detail with VC Dr. Tej Partap and the Pantnagar team.



3. The Best Teacher Award has been launched in the University for which the Nodal Officer

(Academic), IDP Pantnagar, along with his team has been bestowed the responsibility to expedite the online feedback activity from the students. A schedule has been prepared to accomplish the task of feedback collection by bringing all the students to University Computer Centre CCF which will be completed from December 2-16, 2019.

4. A 3-day visit was undertaken by Dr. P. K. Singh, Project Scientist under Innovation and Incubation Centre, IDP Pantnagar, to Sardar Vallabh Bhai Patel University of Agriculture and Technology, Meerut for participating in NAARM-led Consultative Workshop on Academia-Industry-Government Linkages for quality agricultural education.
5. PI, IDP Dr. S.K. Kashyap held a meeting with Dr. Arabinda Kumar Padhee, IAS, Director, Country Relations and Business Affairs, ICRISAT, New Delhi alongwith IDP Nodal Officer (Academic) Dr. S. K. Guru to create a liaison with ICRISAT for all possible avenues of academics, research and collaboration. Dr. Padhee gave conviction to support the IDP activities of Pantnagar at each possible level. A blueprint has been created to strengthen the functional ties between ICRISAT and GBPUAT, Pantnagar.
6. The Industry Collaboration team consisting of Dr. Sanjay Kumar, Professor, Livestock Production Management and Dr. Navneet Pareek, Professor, Soil Science, and led by PI, IDP Dr. S.K. Kashyap, met with Shri Jaiprakash Narain, CEO, Century Pulp and Paper Mills in Lal Kuan to explore the possibilities of mutual collaboration under IDP. Shri Narain provided overwhelming conformation to support the IDP activities and proposed several avenues of tie-up for which projects will be prepared for implementation. The effort is focused to support the sustenance plan of IDP.
7. The Nodal Officer (Project Monitoring and Evaluation) of IDP, Dr. K.P. Raverkar participated in National Level Brainstorming Workshop on NAHEP Results Framework, held at IARI, New Delhi on November 11, 2019.

Innovator's Meet Organized by Innovation and Incubation Cell of IDP-NAHEP Pantnagar

An Innovator's meet was organized by Innovation and Incubation Centre of IDP-NAHEP on November 30, 2019 at Pantnagar. Industry experts from different sectors, incubators and students of the University were present for this meet. Mr. Bhupesh Khatri, Deputy Director, IGNOU; Dr. Saket Chattopadhyay, Research Associate (Fund Raising) and Mr. Shivshankar, Research Associate (Incubation) from Indigram Labs Foundation; Mr. Vijay Pratap Singh Rawat, Founder, Tryton House Motorcycles; and Mr. C.G. Gaurishankar from Metalman MicroTurners, SIDCUL Rudrapur were invited as experts for the meet. The aim of the meet was to provide a platform for the students to express their innovative ideas and also to interact and discuss their problems and challenges with the experts. During the programme, different innovative ideas were presented by students and technical inputs were given by experts to young innovators on various issues including marketing techniques, fund raising, intellectual property rights issues etc. Furthermore, Dr. Saket Chattopadhyay focused on



the importance of job shadowing in starting up any venture and Mr. Bhupesh Khatri emphasized on the role of critical thinking and machine learning in current context of innovation. A MoU was signed between IDP-NAHEP GBPUAT, Pantnagar and Indigram Labs Foundation (ILF) University, to collaborate and enhance the ecosystem for promoting innovation and entrepreneurship. Both the parties expressed their interest to work together for incubation and acceleration of companies with the focus on technology in agriculture, education and skills, rural focused health and wellness initiatives and clean energy and automation for rural and urban people.

Future of Farming: Artificial Intelligence, Robotics, Big Data Analytics and Climate-Smart Agriculture

Pantnagar University is going to apply advanced technologies such as Artificial Intelligence (AI), Robotics, Big Data Analytics (BDA), and Climate-Smart Agriculture (CSA), etc. on agricultural activities. These technologies will help to increase crop production and quality, reduce cost and risk, and improve farm income. The undergraduates of the University will get training on these technologies and the various training courses would be organized under IDP-NAHEP. Scientists and trainers from national and international institutes would be invited to train the students. Training courses will be divided into different categories such as Basic, Advanced and Experiential. Specialists will also provide practical demonstrations to the students. The students would also visit different universities located worldwide to learn these technologies. The conversation is going on with different international universities for the visit of students.

Dr. Ajeet S. Nain, Coordinator of this component stated that the modern approaches encompass capturing historical data of farming activities and climate from huge numbers of sources and may guide in both immediate and future agricultural decision-making. AI helps to get accurate and real-time information regarding crops (crop condition, crop stage), insects, water usage or soil conditions, discrimination between crop and weed, and weather conditions. Also, agricultural robots are one of the key trends that may influence the agriculture sector in the future, as these robots would automate traditional farming methods. According to the professors and scientists of the University, big data can play a key role in overcoming the problem of regular agricultural activities. The approach can be used to increase productivity and profitability in the agribusiness.

IDP Amphitheatre: An Avenue for Creating Professional Bonds Through Music

The IDP Amphitheatre is gradually emerging as a student hub for connecting with their peers from different colleges, different degree programmes, different years, and different backgrounds. In order to further strengthen this spirit of cohesion and generating professional bonds, an IDP musical night was organized on November 15, 2019 at the IDP Amphitheatre. This musical night was a Guitar and Band Show wherein young music enthusiasts of the University expressed their hearts out through their mesmerizing performance. Dr. Bangali Baboo, Former Director

NAIP and former DDG, ICAR; Shri. Jaiprakash Narain, CEO, Century Pulp and Paper; and Dr. Tej Partap, Vice Chancellor, GBPUAT, Pantnagar graced the occasion with their benevolent presence as Guests of Honour. A gathering of almost 1000 University students thronged the amphitheatre with their energy and enthusiasm. In due course, IDP Pantnagar shall be organizing more such events which would provide this unique opportunity to Pantnagar student community to hone their talents as well as generate personal and professional bonds which would sustain forever.



The Main Events of December 2019

S. No.	Event	Proposed Date	Venue	Nodal Unit	Convener
1	Initiation of German Language Classes	2-12-19 Onwards	IDP Office, University Centre 2 nd Floor	Language Laboratory Team	Dr. Alka Goel, College of Home Science
2	Benchmark Student Survey	5-12-19 Onwards	IDP Office, University Centre 2 nd Floor	Project Monitoring and Evaluation Team	Dr. K.P. Raverkar, College of Agriculture
3	Training on Innovative Startups in Community Science	4-12-19 to 9-12-19	IDP Office, University Centre 2 nd Floor	Academic Team	Dr. Shefali Massey, Dr. Archana Kushwaha, College of Home Science
4	Training on Robotics	6-12-19 to 9-12-19	IDP Office, University Centre 2 nd Floor	Agro Informatics Team	Dr. A.S. Nain, College of Agriculture
5	Interactive Session on Skilling Youth for Career in Health Bioindustry	7-12-19 to 8-12-19	IDP Office, University Centre 2 nd Floor	Academic Team	Dr. Aman Kamboj, College of Veterinary and Animal Sciences
6	Training on Career Options in Agriculture with Mr. Vikas Mangal, Scientist, CRIJAF, Barrackpore	13-12-19 to 14-12-19	IDP Office, University Centre 2 nd Floor	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities
7	Overseas Exposure: An Interactive Session with Illustrious Alumni	14-12-19	IDP Office, University Centre 2 nd Floor	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities

IDP Efforts for Holistic Development

Dr. S.K. Kashyap

Professor and Head, Agricultural Communication/PI, IDP-NAHEP, Pantnagar

The agriculture students may also learn robotics and a technology student may take classes in fashion designing. The world is changing and present-day perspective is that of collaboration and synergy. It is heart-warming to see hundreds of students taking classes each evening in versatile disciplines in University Centre under IDP efforts and getting insights from the academicians, practitioners, industrialists, entrepreneurs and visionaries. It is imperative for any responsible institution to provide such opportunities to their students so that the real strength of youngsters could evolve and emerge. The much-needed perspective of roping-in the industrial leaders in real classes of the University to provide the present-day insight of technology and soft skills to the students has come true through IDP efforts. It is just a beginning and the IDP will bring even more interesting interventions in the upcoming days for the faculty and the students. Keep enjoying and growing !



Earn Golden Points for Participation in any Activity under IDP-NAHEP

A 'Golden Points Scheme' is announced for students to encourage their participation in various IDP activities. Students get specified number of points for different stages of the participation viz.

registration, short listing and participation. Students can redeem their points for fabulous gifts, mind-blowing sessions, miraculous gifts, mouth-streaming dinners and much more!

Top Scorers of IDP Golden Points Till November 2019



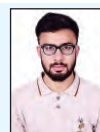
Shruti Kashyap
ID: 51436200
College of Agriculture
Point Earned : 200



Shaurya Dumka
ID : 49766
College of Veterinary and Animal Sciences
Point Earned : 150



Diksha Srivastava
ID : 53235
College of Home Science
Point Earned : 150



Yogesh Pandey
ID : 50192
College of Basic Sciences and Humanities
Point Earned : 150



Shubham Singh
ID: 53734
College of Technology
Point Earned: 150



Suraj Kumar
ID: 53417
College of Technology
Point Earned: 127



Lata Panoura
ID: 52951
College of Agriculture
Point Earned : 125



Bhumika Manral
ID: 51467
College of Agriculture
Point Earned : 125



Chinmay Gupta
ID: 49787
College of Veterinary and Animal Sciences
Point Earned : 125



Estuti Joshi
ID: 51463
College of Agriculture
Point Earned: 125



Mohit Singh Bohra
ID: 53038
College of Technology
Point Earned : 125



Prachi Nagarkoti
ID: 52949
College of Agriculture
Point Earned: 125



Pranshi Gupta
ID: 51667
College of Home Science
Point Earned: 125



Sumit Tiwari
ID: 52963
College of Agriculture
Point Earned: 125