



IDP-NAHEP Pantnagar Updates

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

No. 11
August 2020

Message of IDP Leader, GBPUAT, Pantnagar

Augmenting the Skill Development Efforts in the University

Skill development has been a focal mandate of G.B. Pant University of Agriculture and Technology, Pantnagar right from the beginning. The practical classes, the industrial attachment, the practical crop production, and similar other activities were conceptualized and implemented in the University setup in early decade and since then the University has regularly transformed and updated the context of skill development through multiple approaches. The National Agricultural Higher Education Project (NAHEP) is yet another opportunity to redesign and invigorate the concept of skill development in the University framework. The skill development courses, the entrepreneurship workshops, and the internship programme under IDP-NAHEP has opened up a vast opportunity for the University students which is being utilized by them in utmost manner. Various developments under the NAHEP are also supporting this skill development endeavour by creating supporting facilities, which will definitely result in substantial long term outcomes. It is a matter of pleasure and pride that different skill development endeavours of NAHEP have covered and benefitted majority of undergraduate students of different colleges of the University.



(Tej Partap)

Online Internship Programme Launched by IDP-NAHEP Pantnagar

Selected Undergraduate Students to be Nurtured into Professional Working

The IDP-NAHEP, Pantnagar has so far contributed in different ways for honing the skills and higher order cognitive skills of the students. Yet another unique initiative was launched by the IDP team called the Internship Pathshala. The Internship Pathshala is basically a two month paid online internship programme for undergraduate students of Pantnagar University. The motive behind launching this internship programme is twofold. First, to provide project based professional working exposure to the students and second, to conduct preliminary study and develop prototype/model on need-based issues, relevant to take the University to the next level of development. The first internship programme began on July 10, 2020 and it received an overwhelming response with more than 350 applications from the



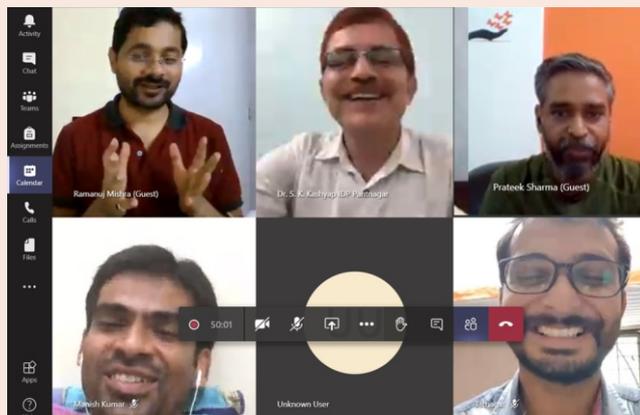
undergraduate students of the University. The selection process for the internship programme included an online test based on general ability and language skills, and thus this way 15 students were selected as interns for the first batch of Internship Pathshala 1. Looking into the large number of applications received, the Internship Pathshala 2 was

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Collaborative Meet Organized by Innovation and Incubation Centre Young Agri-Entrepreneurs Invited for Deliberations

The Innovation and Incubation Centre team working under IDP-NAHEP, Pantnagar organized an online collaborative meet. The agenda of this meet was to encourage and ensemble a collaborative relationship with young entrepreneurs of the country who are working in the field of agriculture. The initiative of this collaborative plan was brought forth by Mr. Ramanuj Mishra, Founder Avid Education and Consultant, IDP-NAHEP, Pantnagar and the collaborative meet was thus held on July 19, 2020. The entrepreneurs invited for the same included Mr. Manish Kumar (Co-Founder, Back to Village), Mr. Prateek Sharma (Founder, Green and Grains), Mr. Tathagat Barodh (Organic Farmer), and Mr. Siddharth Chaturvedi (Consultant, World Bank and Former, Senior Mission Executive, Ministry of Rural Development). The meeting was coordinated by Dr. S.K. Kashyap, PI, IDP-NAHEP, Pantnagar and Dr. Ajay Upadhyay, Coordinator, Innovation and Incubation Centre. Some senior faculty members of the University were also invited for this meeting. The meeting began with brainstorming on the possibilities to directly engage undergraduate students with different agri-entrepreneurs. This direct engagement would have multiple advantages beginning with an actual sense of awareness about how entrepreneurial ventures work,



what inspires an individual to become an entrepreneur, how to overcome the barrier of job seeking attitude, what it takes to sustain an entrepreneurial venture and ultimately earn profit out of it, and why is it necessary for graduates of agriculture and allied fields to choose agri-entrepreneurship as a career option. This brainstorming further moved towards how University can support agri-entrepreneurs of the country and help resolve technical issues in a simplified and accessible manner. The meeting finally led towards some conclusive action points, with suggestions coming from the young agri-entrepreneurs and the faculty members. It is being planned to execute the recommendations in the best and earliest possible way.

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also planned for launch from July 25, 2020 onwards. This time also, a massive response was received and more than 350 applications were submitted. The online test was conducted and a fresh batch of 15 interns was inducted.

The entire internship programme has its foundation in project based learning system. Each intern has been assigned a work area and will be working under the guidance of a mentor, who will be a research associate/post doctoral fellow of IDP-NAHEP, Pantnagar, while the overall work of all the interns will be further guided by Dr. S.K. Kashyap, PI, IDP-NAHEP, Pantnagar and Dr. S.K. Guru, Nodal Officer (Academic), IDP-NAHEP, Pantnagar. The internship programme will provide an opportunity to the interns to interact, connect, and collaborate with alumni, entrepreneurs, scientists, government officials, and farming community. Also, the selected interns will be provided

a monthly stipend of Rs. 5000 and a certificate after successful completion of the internship.

The official launch ceremony of the Internship Pathshala was held online in the presence of Hon'ble Vice-Chancellor, GBPUAT Pantnagar Dr. Tej Partap, PI, IDP-NAHEP, Pantnagar and Dean, College of Agriculture, Dr. S.K. Kashyap, Nodal Officer (Academic), IDP-NAHEP, Pantnagar Dr. S.K. Guru, Procurement Officer, IDP-NAHEP, Pantnagar Dr. Manisha Rani, Alumna of Pantnagar and Consultant, IDP-NAHEP, Pantnagar Ms. Shweta Gupta, all research associate/post doctoral fellow of the project and all selected interns. This internship programme is indeed a novel approach to nurture the student fraternity of the University to be market ready, oriented towards continuous learning and embed actual soft skills and on job skills which are necessary to become a competent and admirable professional.

Feedback of Interns of Internship Pathshala-1



Abha Belwal, IInd Year, College of Agriculture

As an intern for the NAHEP-IDP Pathshala-1, it is was very fun and invigorating process. To be productive when everyone else is having fun is a very challenging prospect. It was a very different and intellectually stimulating event.

Aditi Sharma, IIIrd Year, College of Agriculture

The internship has given me a chance to expand my knowledge in the field of research. As an intern, I learned to listen and analyze not only what was required of me, but also what the unmet needs were. The internship also taught me how to work both independently and in a team.



Aditi Thareja, IIIrd Year, College of Agriculture

This internship has been one of the most rewarding experiences of my life. Not only was I exposed to a network of support from the University, NAHEP, but also I have made lifelong friends and professional connections during my time here.

Akansa Nayal, IVth Year, College of Home Science

I learned to channelize my knowledge in more applied tone, to propose reasonable usage of AR technology in the curriculum development and comprehended the importance of generating innovative techniques in teaching-learning processes for the considerable and mutual benefit of students and University.



Anureet Kaur Sandhu, IInd Year, College of Agriculture

The phase of internship for me is not only about completing tasks assigned on time, but upliftment in my demeanour. Specifically gaining humongous knowledge about a subject which we could have never thought to figure out, improving soft skills for instance team work and flexible positive attitude.

Apeksha, IVth Year, College of Veterinary and Animal Sciences

The internship helped me broaden my capability of conveying what I know, to someone working in a completely different field. It made me learn to complete my assignments as scheduled. The concept of AR and VR was completely new for me, and I enjoyed the learning while working on it.



Ayush Bhardwaj, IInd Year, College of Technology

NAHEP provided us an opportunity and platform for proper utilisation of our time and channelization of our energies towards fulfilment of a grand goal for the University, while upgrading our technical skills and also inculcating soft skills and values in us.

Diksha Singh, IInd Year, College of Technology

My experience with the NAHEP Internship Pathshala team till now has been of tremendous learning. Not only it helped me to develop my personality through its various tasks, but also gave me an insight into the professional world and helped me explore my own professional arena.



Mallika Tripathi, IInd Year, College of Agriculture

From putting my skill set to the best use to working out of my comfort zone, this internship is providing all sorts of possibilities. Allotment of day-to-day tasks and assignments make it easier to systematically advance towards the end goal.

Stuti Lavania, Ist Year, College of Agriculture

Internship Pathshala-1 being my first internship will always hold a special place in my heart. The ongoing journey has allowed me to grow personally as well as helped me in gaining a new sense of professionalism. I am looking forward to complete my internship with everlasting experiences.



Kritika Singh, IInd Year, College of Technology

This past month as an intern under IDP- NAHEP has given me an opportunity to see how different strategies are used for managing content developing media plans and updating social media with a focus on increasing awareness and engagement. This internship has helped me to look on the work in a more professional way.

Sanjay Dutt, IInd Year, College of Technology

The internship from IDP-NAHEP has been a wonderful roller coaster ride enriched with gaining valuable skills and experience to work in a time bound schedule while also taking the responsibility of setting a task to completion. This internship has helped prop up my confidence and the zeal in excelling at what I do.



Sugandha, IInd Year, College of Technology

Internship has been quoted as "Forgive yourself for not knowing what you didn't know before you learned it." Post my internship with IDP-NAHEP PATHSHALA-1 I think I have entered the phase. The internship taught me about time management, responsibility, work ethics, problem solving skills, and much more.

Tulika Sharma, IIIrd Year, College of Agriculture

This NAHEP Internship has led me to a whole new world of skills, concepts, knowledge and learning which earlier I was not accustomed to. Completing daily targets, learning new concepts, forming a plan and then executing is full of thrill and excitement and the best possible way of productive use of our time.



Varnita Upadhyay, IIIrd Year, College of Home Science

The internship not only has helped me to grow personally, but it also helped me to gain new understanding of world and have a harmonious relationship with colleagues. But most importantly, I gained a new sense of professionalism and a clearer view of what it meant to be in the professional world.

President National Academy of Veterinary Sciences Invited for Guest Lecture

During the time when world is severely affected by COVID-19 outbreak, the concept of Zoonosis has become an important topic of discussion for the intellectuals around the world. Considering the significance of this concept in present context, IDP-NAHEP, Pantnagar organized a guest lecture on *Zoonosis: A Threat to Mankind* on July 17, 2020. The guest lecture was delivered by Major General (Dr.) Shri Kant Sharma, National Academy of Veterinary Sciences and former Vice-Chancellor of Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar, Haryana. Dr. Sharma served the Indian Army for more than one decade and then moved into academics. He has undertaken exhaustive efforts to mark country's presence at the international platform. Initiating the lecture, he talked about the historical origin of zoonotic diseases, elaborating on the host, transmission cycle of the vector, signs and symptoms and outbreak of both emerging as well as most prominent zoonotic diseases like HIV, Influenza, SARS, Nile Virus, Monkey Pox, Rift Valley Fever, COVID-19, Rabies, Anthrax and Glanders. He then briefed on the



concept of one health and informed that with one-health concept the world is focusing upon the well-being of human beings, animals and the environment through collaboration and communication between major institutions, organizations and disciplines to launch global initiatives, wellness programmes, joint action efforts, etc. for the world as a whole. Dr. Sharma also focussed upon various policy measures taken at the national and international level by organizations and different countries to control as well as combat the spread of zoonotic diseases for preventing them to be used for biological warfare. He concluded the lecture by giving special mention to the challenges and the action strategies for the country for getting prepared to deal with such emerging threats. Dr. S.K. Guru, Nodal Officer (Academic), IDP-NAHEP gave heartfelt thanks to Dr. Sharma for providing rich insights to all the participants and said that it is an honour to have a person of his stature among Pantnagar fraternity. Dr. Sanjay Kumar Sharma, Project Scientist, Industry Collaboration Team, IDP-NAHEP, Pantnagar coordinated the guest lecture.

Guest Lecture Held on Applications of Geoinformatics Technology in Fisheries

Geo-informatics has found its application in every field, and fisheries is one such sector where such technology can yield numerous applications. Dr. Prem Kumar a renowned scientist from Fisheries Science Division of ICAR, New Delhi oriented the participants through his research insights on *Application of Geoinformatics Technology in Fisheries Resource Management* in an online guest lecture held on July 11, 2020.

Dr. Kumar has undertaken intensive projects in the use of geoinformatics for exploring the fisheries potential in water bodies of Indian Himalayan Region (IHR) and gave a comprehensive overview of the technology to the participants. He started the session with a brief upon the need of GIS, components of GIS, working of the system and its application in fisheries sector. He then elaborated on the process of preparing thematic maps using GIS and remote sensing tools. He also gave a glimpse of the images captured



with the help of sensors fitted with different satellites and their geometric correction and joining of spatial and non-spatial data in creating virtual world for analysis and interpretation. He also appraised details of his scientific work on developing maps of water resources of Indian Himalayan region. Talking high about the applications of technology in fisheries sector, he added that the technology has immense scope in micro and macro level planning. Responding to the queries of participants, Dr. Kumar also threw light on the working principle of sensor technology, biodiversity maps and selection of aquaculture sites. More than 100 participants from various parts of the country attended the session and got benefitted. Dr. Vipul Gupta, Project Scientist (Academic), IDP-NAHEP, Pantnagar coordinated the session and stated that such lectures are organized to orient students on recent advances in technology.

Group Leader Mondelez India Guided Students on Conventional and Non-Conventional Prospects in Food Industry

Food processing industries are evolving as leading industry in India and also an important employment avenue for students undergoing degree in food technology and related disciplines. In order to guide the emerging food technologists for their upcoming career, Mr. Sanjeev Kumar Sharma, Group Leader, Mondelez India was invited for an online webinar under IDP-NAHEP, Pantnagar banner. The webinar was held on July 25, 2020 and the topic of the webinar was *Getting Skilled for Better Employability in Food Industry*. It was attended by more than 200 participants including entrepreneurs, graduates and experienced faculty in the field of food technology. Mr. Sharma began by highlighting the availability of vast career opportunities in the food sector. He said that basic understanding of food science which one acquires during under graduation degree programme is the basis of a good career. He said that how is initial career journey in Cadbury, SIDCUL, Pantnagar taught him the

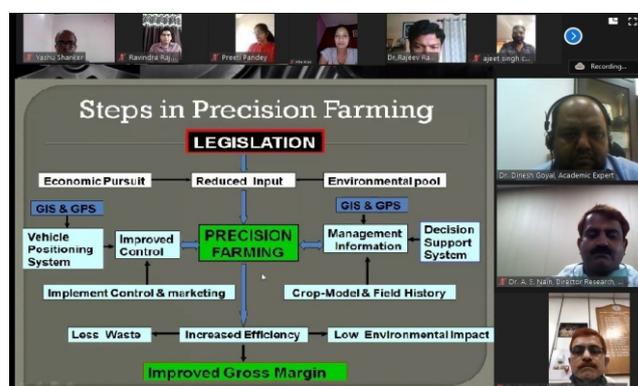


importance of research and development and lifelong learning of recipe engineering in the field of chocolate and chocolate products. He then mentioned in particular about the various roles/job opportunities under different domains that exists in food sector and suggested that to become a successful professional, one must always be keen to continually develop technical skills and people skills, because it is ultimately people skills that is the game changer. He also briefly discussed about the higher education prospects in food technology in the country. Dr. Amit Kesarwani, Project Scientist (Academic), IDP-NAHEP, Pantnagar coordinated the programme held on the virtual platform of Microsoft Teams. Dr. S.K. Guru, Nodal Officer (Academic), IDP-NAHEP, Pantnagar expressed his delight on such an informative session and told that it is important for students to learn from the experiences of industry practitioners in order to wider their horizons of professional career ahead.

Five Days Workshop Held on Precision Farming

The skill based training and workshops organized by IDP-NAHEP, Pantnagar have brought a significant improvement in the skill set of students. The long term training and workshops have played an important role here. With this, another long term workshop was organized on Precision Farming from June 29-July 3, 2020. Dr. Dinesh Goyal, Professor, Poornima Institute of Engineering and Technology, Rajasthan led the workshop and made the participants understand that how a technology-enabled approach to farming management works that observes, measures, and analyses the needs of individual fields and crops.

The introductory session of the five days workshop began with an overview of precision farming - concept, scope, existing applications, and future possibilities with respect to soil, weather and crop, needed to improve productivity, quality, and profitability in agriculture. In the following sessions, the aspects of satellite-based positioning systems in agriculture farming were discussed alongwith usage of technology for yield monitoring and field mapping, and variable rate technologies (VRT) which measure soil variability, soil mapping, etc. In the last session of the



workshop, the topic of precision farming economics and adoption were deliberated upon. In totality, the workshop provided a detailed perspective on precision farming and how it can help farming community and other agriculture stakeholders increase productivity and production.

In the valedictory session of the workshop, Dr. Goyal told the participants that precision farming is about doing the right thing, in the right place, in the right way and at the right time. Overall, the workshop was extensive and gave some hands on learning experience also to the participants. A total of 100 students participated in this workshop from all across the country.

Interactive Session Held on Entrepreneurship as Emerging Career Option

Developing entrepreneurial acumen amongst the students of the University is one of the primary focuses of the IDP-NAHEP project. An online interactive session with Mr. Rajeev Saraswat, leading consultant and Co-founder of Solvera Consulting Private Limited, New Delhi was held on July 17, 2020 for mentoring young minds to opt for entrepreneurship as a viable career option. Initially the expert presented a theoretical background of the concept of entrepreneur and entrepreneurship, characteristics and classification of entrepreneur, theories and process of entrepreneurship. Mr. Saraswat stated that in days to come agriculture is going to emerge as one of the most promising avenues for people who want to initiate on building a business venture of their own. He specifically mentioned that graduation in agriculture provides an impetus to the individual who are thinking of opting for agri-entrepreneurship, due to the expertise in subject matter related to agriculture. Giving the example of numerous agriculture based startups in the country, the expert added that one needs to work in understanding the process of



entrepreneurship, planning and validating the idea and cultivate the habit of reading self-help literature as well as books based on life sketch of successful entrepreneurs. Briefing on the Japanese concept 'Ikigai' he added that one needs to apply the theory of 'reason of being' and to balance the demands of professional and personal life. The queries on the viability and feasibility of business idea were asked by the participants to which the expert tactfully responded. Mr. Amit Kesarwani, Project Scientist (Academic), IDP-NAHEP, Pantnagar coordinated the session and also delivered his heartfelt gratitude to the expert for enlightening the young minds to take up and work on innovative projects.

Online Workshop conducted on Skills of Digital Marketing

Digitalization has gradually taken over all domains of work and practice including business, education, governance, sports, politics, and what not and digital marketing is a potent tool supporting this spread of digitalization. An online workshop on *Learning the Skills of Digital Marketing* was organized by IDP-NAHEP Pantnagar on July 23, 2020 for University students and Mr. Abhishek Raj, Chief Executive Officer, Trend Eve Online Store was the expert.

The workshop began with the introductory remarks by Dr. S.K. Guru, Nodal Officer (Academic). He discussed the benefits of digital marketing in different areas, and how it can be used to commercialize products and processed commodities. Mr. Raj who has a vast work experience as a Digital Marketing Manager in different organizations then proceeded with the workshop beginning with the fundamental concepts of sales and marketing. He detailed that marketing is a skill to educate and aware the target audience about the company's product or services. It develops a relationship between organization and customers and

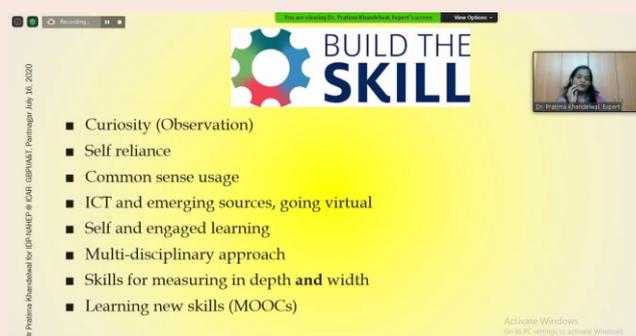


it can be done in two ways, i.e. B2B (business to business) and B2C (business to customer). Thereafter, he described the concept of digital marketing and its different formats such as SEO (Search Engine Optimization), content marketing, social media marketing, pay per click, affiliate marketing which includes network and influencing marketing, native advertising, marketing automation, email marketing, online PR, inbound and sponsored marketing. Mr. Raj then discussed about the prospects and usage of digital marketing in agriculture domain. He gave some examples like the Swaraj Case Study which started a campaign *Maine Chuna Mere Swaraj* for building an emotional connection with the customers to Tata Tea Kanan Devan who took users on a tour to their tea plantation for a photography competition and the strategy of Paper Boat was also described where they brought a touch of nostalgia and simplicity in its storytelling campaign that focused on the urban population between the age of 20-40. The workshop was extremely interactive and was appreciated by all participating students.

Participants Got Mantras on Evolving Skills and Attitude for Learning

Learning the art of grasping new skills and developing a learning attitude is extremely important in present times. The 21st century world offers a lot of opportunity for learning but only the one who is ready to adapt and embrace change will gain some fruitful outcomes from the sea of possibilities. To sensitize the student community of the University about the same, Dr. Pratima Kandelwal, an alumna of Pantnagar and Professor and Head, Teaching Learning Centre, Global Academy of Technology, Bengaluru was invited for an online webinar. She is also the founder of FlyHigh Educational Excellence Services, Begaluru and deliberated on the topic *Evolving Skills and Attitude for Learning in COVID Times*. The webinar was held on July 16, 2020 and was coordinated by the academic team of IDP-NAHEP, Pantnagar.

The online webinar initiated with Dr. Pratima Kandelwal stating how COVID-19 has impacted the education sector. She elaborated that the COVID-19 has significantly affected the approach of teaching learning process, which offers both a challenge as well as an opportunity for devising adaptation strategies for new normal. She emphatically specified that being agile for learning is necessary in present VUCA times and for that one needs to cultivate behavioural and attitudinal skills which are of higher value. Focusing on the importance of a routine life during student life, she said that one needs to work upon soft skills, hard skills, emotional intelligence and universal human



values. Adding to her deliberation, Dr. Kandelwal stated that the most important thing in life is to know, like and value oneself, develop constants like honesty, sincerity, trust, reliability and commitment with the right type of attitude. She also mentioned that distractions arising out of the gadgets, gossiping, negative thoughts and other things must be controlled by the students for better and improved outcomes out of one's efforts. She then addressed the queries of the participants on the use of time, multitasking skills and other problems of student life. Dr. S.K. Guru, Nodal Officer (Academic), IDP-NAHEP gave the concluding remarks in the webinar and expressed that the webinar was indeed useful especially in terms of telling the participants on how to learn the art of learning skills and maintain a learning attitude throughout. The expert also applauded the intensive involvement of the students and put forth her heartfelt wishes and appreciation for the participating students.

The Main Events of August 2020

S. No.	Event	Proposed Date	Venue	Nodal Unit	Convener
1.	Two Months NAHEP Online Internship for UG Students	10-07-2020 to 10-09-2020 25-07-2020 to 25-09-2020	Online	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities
2.	Guest Lecture on Technological Innovations in Coastal Aqua-farming for Entrepreneurship Development	10-08-2020	Online	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities
3.	Networking and IPR Workshops for Faculty Members	Third and Fourth Week of August, 2020	Online	Academic Team	Dr. S.K. Guru, College of Basic Sciences and Humanities



The IDP NAHEP Internship Pathshala - An Innovative Concept of Project Based Learning

Dr. S.K. Kashyap
Dean, College of Agriculture/PI, IDP-NAHEP, Pantnagar

The COVID-19 situation has restricted the mobility and attachment programmes of the students which is confronting with the scheduled mandates of the project. Meanwhile, IDP-NAHEP Pantnagar structured a new concept of Internship Pathshala for the University students in which students were selected to undertake project and assignment based learning in guidance and supervision of mentors. The students were grouped into work teams to be put to a well-structured project for a duration of two months in which mentors provided them required guidance and nurturing to lead them towards day wise work assignment including data mining, analysis, interpretation, reporting, and documentation on daily basis. Till time, it has been a wonderful experience to observe the significant impact of this intensive internship on the outlook and skill set of the interns. The impact of internship on skill and behavioural components of interns is being captured on a periodic basis through weekly evaluations. The findings have revealed that the structure and implementation of this Internship Pathshala is emerging impactful. It is planned to continue this experimentation to benefit more students in next phases. More industry partners, entrepreneurs, and academic stalwarts are being identified to be aligned with this project as mentors. I hope in long run may more similar successful initiatives will be launched by IDP-NAHEP, Pantnagar and will continue to nurture the student community of Pantnagar.



Top Scorers of IDP Golden Points Till July 2020



Sarthak Kothiyal
 ID : 51662
 College of Agriculture
 Points Earned : 755



Rekha Bhandari
 ID : 52961
 College of Agriculture
 Points Earned : 530



Yogesh Pandey
 ID : 50192
 College of Basic Sciences and Humanities
 Points Earned : 755



Shubham Singh
 ID : 53734
 College of Technology
 Points Earned : 505



Yanshi
 ID : 49758
 College of Veterinary and Animal Sciences
 Points Earned : 705



Aakash
 ID : 53561
 College of Technology
 Points Earned : 475



Varsha Kamboj
 ID : 53217
 College of Home Science
 Points Earned : 680



Pallavi Bisht
 ID : 52958
 College of Agriculture
 Points Earned : 455



Sumit Tiwari
 ID : 52963
 College of Agriculture
 Points Earned : 555



Samyak
 ID : 53589
 College of Technology
 Points Earned : 455