# College of Agriculture Issue 7, December 2020 College of Agriculture College of Agriculture

#### **English Debate**



Shruti Kashyap First Position



Manisha Chamoli Consolation

#### **Hindi Debate**







Yuvraj Singh Consolation

# Splendid performance of College of Agriculture in Inter-Collegiate University Debate

College won Vice-Chancellors' Revolving Trophy 2020 in English language

Contributed by: Niharika Arora, B.Sc Agriculture, III<sup>rd</sup> Year



ollege of Agriculture has been the most active and dynamic institution of the University of all times. Even in the Pandemic, events kept rolling by dint of the online platform. One such even held on November 12, 2020. First ever Online Inter-Collegiate Debate competition was organised by Dean Student Welfare Section of the University on MS Teams platform in Hindi as well as English language. Two students in each Language were selected from each college of the University. Topic of the debate was 'Employment is the by-product of Education'. Total 32 students, 16 in English and 16 in Hindi language fought for the Vice Chancellor's Revolving Trophy 2020. The bright stars of College of Agriculture brought the Giant Accord to the Pavilion. Shruti Kashyap and Manisha Chamoli, two final year B.Sc. Ag. students of the college represented in Engish language and won Vice-Chancellor's Revolving Trophy 2020 as team-prize in English Section. In Individual category, Shruti Kashyap bagged 1st position and Manisha Chamoli was awarded consolation in English language whereas Vaishali Shree bagged 1<sup>st</sup> position and Yuvraj Singh was awarded the consolation

prize in Hindi language. The students summed up with the highest score in all, beating the counterparts and created history. Students have truly left no stones unturned in bringing fame to the name of College. When asked to express her views and feelings related to the event, Shruti Kashyap said, "I have been participating in various public

participating in various public speaking workshops and oratory competitions right from my first year, and this award is a result of my performance due to the practice and nurturing of all those years. On behalf of all my co-participants, I wish to put my utmost gratitude to Dr. S.K. Kashyap, Dean, College of Agriculture for creating a nurturing and competitive environment in the college itself. We are also thankful to our teachers who helped us in preparing the debate and finally the organizers who organized the event so well for the first time in University. We hope that this event will continue every

agged 1st position and Yuvraj Singh was awarded the consolation year.

"In order to create an engaging learning experience, the role of the instructor is optional, but the role of the learner is essential"



### Beginning of a new journey: Classes for batch 2020

Contributed by: Abha Belwal B.Sc Agriculture, III<sup>rd</sup> Year



ollege of Agriculture has welcomed its new batch of entrants for year 2020. With full enthusiasm and optimism, classes began from November 3, 2020. This global pandemic has forced us to evolve, by putting health first and everything else second. Even after all these setbacks, G. B. Pant University of Agriculture and Technology has come up with strategic ways to keep check on the quality of education. Currently, first year students are studying the fundamental courses, which will build up their foundations in agriculture. Teachers are taking lectures from classrooms using digital boards and students are attending it from their homes in real time via MS Team platform. Various classes, webinars and lectures have been planned so that the new students get a taste of how college life is.

Even though online classes have been the norm for the past 2 semesters, the freshers did not expect to start colleges through the online mode. More than 120 students have registered for the new academic session. Harshit Singh Bisht, a first year student, stated that he wished to be physically on the campus, as the facilities present on campus, and the whole college experience would have been nice to experience. When asked what prompted him to take admission in G.B. Pant University, he said that he has heard praises of the university from his sister who is an alumna of the university. He also revealed that there has been limited interaction with batch mates and college mates in online mode. Divya, another student of the batch 2020, said that one advantage of studying from the online platform is that one can study at anytime with the comforts of the home. Facing some problems in the online mode of instructions, like disconnection with the network, inability to understand some key concepts, Divya feels that with collaborative efforts of students and teachers, these problems will be easily resolved. Since the semester has started a little late the classes are going in a fast-paced manner to complete the course, but students are excited to embark onto their new journey in life. The University hops to get the students back in campus by January 2021.

#### Online Orientation of Freshers - Batch 2020

Contributed by: Anureet Kaur Sandhu B.Sc Agriculture, III<sup>rd</sup> Year

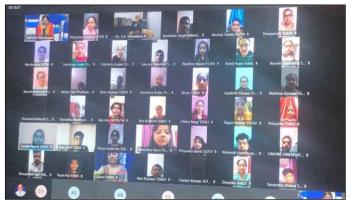


ollege of agriculture organised online orientation of 1st year students of B.Sc. Agriculture and B. Tech. Food Science simultaneously on November 9, 2020. The online orientation was held on Microsoft team platform. All the fresh students could directly interact with Dr. S.K. Kashyap (Dean, College of Agriculture), Dr. Brijesh Singh (Dean Student Welfare), Dr. A. K Singh (Coordinator Examination), Dr. Navneet Pareek (Coordinator Timetable), Dr. Omvati Verma (Staff Counsellor, Agriculture Society), Dr. S. K. Maurya (Co-staff Counsellor, Agriculture Society), Dr. J. P. Jaiswal(Chairman, College Core Action Group), Dr. Salil Tiwari (Professor & Head, Genetics and Plant Breeding), Dr. Anil Kumar (Professor, Agricultural Economics) and Dr. Manisha Rani (Assistant Professor, Soil Science and Warden, Gandhi Bhawan).

The first year students of the college got first hand information about the course curricula, examination system, avenue of extra co-curricular activities in university, the system of discipline, the hostel management system and the multiples student aligned opportunities across the university. Multiple photographs were presented so that the students could also get a glimpse of important buildings of the university, departments, laboratories

as well as the character map of some illustrious alumni. The students also got a chance to quench their curiosity related to the college, discipline, prospects, the advisory system and other related aspects. They also provided their feedback and reflections around the experience of their online classes held till date.

In previous years, the orientation program used to organise in the Conference hall of College of Agriculture. Due to Covid 19, this year the orientation was organised online, in which the fresh students joined from their home and the faculty members lead by the Dean, joined from the Faculty Development Centre of the NAHEP building. The college is also committed to organize online Freshers this year, so that the students who did not get a chance to visit college even for once could be acquainted with the glorious history, achievements and ambience of the college.



## Agricultural Communication department organises two courses on **Communication and Writing Skills**

The goal of education is understanding; the goal of training is performance - Frank Bell

> Contributed by: Neeraj Tewari B.Sc Agriculture, III<sup>rd</sup> Year



e often have heard from our parents that 'the era in which you are living is different than ours and now the competition has increased'. Indeed, it has increased and the focus is being laid on acquiring conceptual knowledge as well as skills. A person with good communication skills distinguishes himself/herself from a huge mass of other candidates who are not having good communication skills. So, during this pandemic College of Agriculture successfully conducted different courses as well as online training programs, which are helpful for students in acquiring an additional set of knowledge. Out of all these programs, two relevant programs were conducted by the Agricultural Communication Department. One was the Online training program on Scriptwriting for Electronic Media and the other was a Certificate course in Communication and Presentation Skills.

Online training program on scriptwriting for electronic media, was held from October 27-29, 2020 on MS Teams under expert guidance of Dr. V.L.V. Kameswari, Professor, Agricultural Communication, and Dr. Amardeep Chauhan, Associate Professor, Agricultural Communication. With the participation of 57 students, the training program focused on the importance, scope, and skills needed for a successful writer in electronic media and participants got to know exactly what it takes for writing commercials, News, documentaries etc.

Certificate course in communication and presentation skills was conducted online via MS Teams to improve communication skills along with presentation skills. The two experts from the Department of Agricultural Communication Dr. Gyanendra Sharma, Professor and Dr. M. A. Ansari, Professor, systematically designed the course to make the participant understand that communication and presentation skills are the part of each other and to have better presentation skills, we need to have good command over communication skills or vice versa. A total of 51 students enrolled for this course.

Enrolling in the above courses was simple, the poster along with the link was broadcasted by the means of WhatsApp and interested students filled the form, and were mailed the link for joining the classes through e-mail. Dr. Neelam Bhardwaj, Professor, and Head, Department of Agricultural Communication said, "These courses will be helpful for all UG, PG and Ph.D. students and especially for those students who will soon appear in different interviews". These courses will indeed enhance employability of the students.

# Two new varieties identified for release developed by Dr. Usha Pant: PYS-2016-8 (Yellow Sarson) and PRL-2013-17 (Indian Mustard)

Contributed by: Vijay Kumar B.Sc Agriculture, III<sup>rd</sup> Year



e are making continuous efforts to breed new varieties with more yield potential, less crop duration, resistant to diseases and nutrient rich, so that our farmer friends could fetch more income with less expense," said Dr. Usha Pant, Assistant Breeder, Oilseeds of Genetics and Plant Breeding Department, College of Agriculture. Dr. Usha Pant is also a Fellow of Rapeseed-Mustard research and recently notified two new varieties of Mustard as a result of her consistent work of past many years under the Oilseed Project.

The University Administration, staff and all her colleagues lauded Dr. Usha for her noteworthy achievement of developing

two new varieties PYS-2016-8 and PRL-2013-17 showing substantial performance as compared to the test varieties. PYS-2016-8 is a variety of Yellow Sarson with crop-duration of 113 days. The production potential of this variety was found 10.4 % and 12.29% more than test varieties PPS-1 and Pant Shweta respectively. It is rich in oil content with 45.14



% oil recovery rate and was also found resistant to White rust disease. PRL-2013-17, a variety of Indian Mustard is a result of three years persistent experimental trials. It was found to have yield of 15.78 % more than test variety PR-20. It has crop-duration of 130 days with 39.28% oil recovery rate. These two varieties have been identified for release and hopefully will prove to be economically beneficial for the farmers of hilly areas.





# Memorial Function held to commemorate 84th birth anniversary of Dr. Y. L. Nene

Contributed by: Anubhav Singh Raj B.Sc Agriculture, III<sup>rd</sup> Year



ormally history denotes the continuous record of past events, whereas in case of ancient agriculture, it denotes the value and traditional practices adopted in that era, helpful for present day agriculture.

On November 24, 2020 Asian Agri - History Foundation (AAHF), Pantnagar organized a memorial function to commemorate the 84th birth anniversary of India's prestigious agriculture scientist and an illustrious teacher of Pantnagar, Late Dr. YL Nene. Asian Agri-History Foundation is a brainchild of Dr. Nene working to fulfill his dream of portraying the beauty, scientificity and heritage of ancient Indian agriculture in front of the whole world.

After lightning the lamp, the session was initiated by Dr. Vandana Rathore who compered the proceedings and introduced the guests with the audience. Thereafter, Dr. Sunita T. Pandey, Executive Secretary AAHF, delivered the welcome address and gave a brief introduction about the objective of the program as well as various characteristics and contributions of Dr. Nene in agriculture. Besides this, she also advised the young students to learn from the different aspects of Dr. Nene's life. Further, Dr. A. K Upadhyay, Professor, College of Veterinary Science introduced the audience about the Pantnagar chapter of

AAHF. He also emphasized that Uttarakhand is already declared as an organic farming state but the need is to popularize and enhance the value of organic produce of the state through branding and advertisement in order to meet the global standards. Thereafter, Dr. J. Kumar, Registrar, GBPUAT and former advisee of Dr. Nene gave an overview regarding his life through various inspiring stories related to him. He also made the audience aware about the various books written by Dr. Nene, which are cited as monumental references on ancient Indian agriculture. Further, Dr. S. K. Kashyap, Dean, College of Agriculture talked about the remarkable contribution of Dr. Nene in discovering the Khaira disease of Rice and its control measures. He also assured the audience about the working of AAHF as a milestone in near future. Subsequently, Dr. SPS Beniwal, Chairman, AAHF gave a presentation on Dr. Nene's life, education, achievements and contributions through various photographs and data. Besides this, he also highlighted the concept and importance of "Vrikshayurveda" and "Kunapajala". The formal proceeding of the event also included the launch of newly designed journal named 'Vrikshayurveda Farming News', that will be available in both hindi and english languages. The session ended with some of the messages from the former students and admirers of Dr. Nene. The event was attended by a large number of audience including farmers, professors, students etc. Guest from abroad also join the function.

# Pant Masoor -12: A new variety of Lentil released

Result of Scientists of Pulse breeding team

Contributed by: Sumit Tewari B.Sc Agriculture, III<sup>rd</sup> Year



n this Covid era where everything is put to halt, economic growth, technological development and different sectors ■ have slowed down, but one thing, which kept rolling and cannot afford to halt, is Agriculture. Pandit Jawaharlal Nehru said, "Everything can wait but not agriculture". Proving the saying true, Scientist of College of Agriculture, G.B. Pant University are striving hard to contribute in the growth of agriculture. Recently the pulse breeding team of Genetics and Plant Breeding Department, College of Agriculture, in leadership of Dr. R. K. Panwar has developed a variety of lentil. Dr. R. K.

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# Online training held on 'Crop Improvement for Climate Resilience and Food Security' by Department of Genetics & Plant Breeding



Contributed by: Geetika Joshi B.Sc Agriculture, III<sup>rd</sup> Year



he 3-days online training programme from November 26-28, 2020 was organised by Department of Genetics and Plant Breeding, College of Agriculture on MS Teams platform for PG/Ph.D. students. The topic of the training was 'Crop Improvement for Climate Resilience and Food Security' and it was sponsored by Indian Council Of Agricultural Research, New Delhi (SC-SP Plan). Dr. H. S. Gupta, Ex-Director General, Borlaug Institute for South Asia and Ex-Director IARI, started off by delivering the inaugural lecture. Dr. R. K Sharma, Ex-Head, Genetics Division, IARI, Dr. Salil Tewari, Professor and Head, Genetics and Plant Breeding, Pantnagar alongwith other prominent scientists from Department of Genetics and Plant Breeding, Pantnagar including Dr. N. K. Singh, Dr. I. D. Pandey and Dr. J.P. Jaiswal were the experts for the different sessions of the training. Various issues and the needs of plant breeding techniques in achieving food security and improvement in quality of crops were discussed during the training.

The focus areas of training were:

- 1. Crop improvement for food and nutritional security.
- 2. Breeding crop varieties for climate resilience.
- 3. Breeding for climate smart agriculture.
- 4. Use of wild relatives in improving climate resiliency of maize.
- 5. Breeding for climate resilient crops.
- 6.Innovative approaches for brewing wheat and barley for climate resilience.

Thus, keeping in mind the present scenario and needs of the nation and the whole world, several deliberations and discussions held on issues like how the agriculture practices be followed to combat the present and upcoming challenges and how plant breeding and developing climate resilient crops can be instrumental in attaining climate resilience and food security. Climate smart agriculture was discussed to be the need of the hour because following the conventional methods and depending highly on climate for inputs and expected favourable conditions is too risky in the times when food security is a big concern. Hence, the three days training successfully covered all the focus areas and their implications were brought into light along with the need to adopt wild relatives to a certain extent, as they are more tolerant and climate resilient.

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Panwar is also the Fellow of Indian Society of Pulses Research and Development. The team comprises of Dr. R. K. Panwar, Dr. S. K. Verma and Dr. Anju Arora.

The new variety was developed under All India Coordinated Pulse Improvement Project. The name of the new variety is Pant Masoor 12. It is a result of cross between PL - 6 and DPL-58 varieties, this new variety is resistant to rust diseases and against borer insect. The plant height is about 35 - 40 cm and the duration of the crop is 145 - 155 days. The yield is about 15 - 18 quintals with protein content of about 25.5%. It is observed that variety is 11% more yielding than VL - 125 and VL -514 varieties developed by Vivekananda Parvatiya Krishi Anusandhan Sansthan (VPKAS), Almora. Dr. Tej Partap (Vice-Chancellor), Dr. S. K. Kashyap (Dean, College of Agriculture), Dr. A.S. Nain (Director Research) and Dr. Salil Tewari, Professor & Head, Genetics and Plant Breeding congratulated the team for their timely and stupendous achievement.



Dr. R. K. Panwar



Dr. S. K. Verma



Dr. Anju Arora



# Two days online training programme organized by **Department of Plant Pathology**

Contributed by: Simran Pundir B.Sc Agriculture, III<sup>rd</sup> Year



ver since the lockdown started, the College of Agriculture, Pantnagar has been making great lot efforts I to expand the knowledge horizons of the students. Conducting and attending various online webinars, events, competition, workshops, training etc. along with structured online classes has now become the new normal for students. In this sequence of online grooming, Indian Council of Agricultural Research (ICAR) sponsored Scheduled Caste Sub Plan component is currently operational into the college. Under this, funding for various workshops, training, webinar etc is being done by ICAR in order to provide ample learning opportunities to the students.

Into this series two '2 day online training programme' were organised by Department Of Plant Pathology. First training held from November 3-5, 2020 on the topic "Diagnosis and detection of plant diseases and their pathogens" for postgraduate and Ph.D. scholars of the college. Six topics were taken into focus under this training. Those were- Diagnosis & detection of fungal diseases, seed borne diseases, bacterial diseases, nematode diseases, viral diseases and last on molecular techniques of diagnosis & detection of plant pathogens. Expert speakers- Dr. A.K. Tewari, Dr. Rashmi Tewari, Dr. Yogendra Singh, Dr. Satya Kumar, Dr. Manju Sharma and Dr. K.P. Singh from Department of Plant Pathology, College of Agriculture, led this training. Students

learned huge lot things in span of these 3 days, which made their concepts more clear. This programme witnessed participation of round 90 + postgraduate and Ph.D. scholar making it a successful

Second training was on the topic "Integrated disease management in important crops" organized from November 9-11, 2020 for under graduate students of the college. Under this training six areas were taken under consideration, those were-Objectives and concept of Integrated disease management, Integrated disease management in rice, wheat, pulses, vegetables and sugarcane. Experts- Dr. Shilpi Rawat, Dr. Bijendra Kumar, Dr. Deepshikha, Dr. L.B. Yadav, Dr. Shialbala and Dr. Geeta Sharma from Department of Plant Pathology, College of Agriculture took different session of this training programme. Into this, students were taught how IPDM (integrated pest and disease management) is a conceptual and integrated method, which aligns biological, chemical, physical and cultural, practices altogether in such a technique that balances the environment, ecosystem along with the production. Emphasis was laid on scope of IPDM into farming system, opportunities of research for agriculture graduates into this field and application of IPDM on staple food production in order to attain self-sufficiency and nutritional security.

These two '2 day online training programme' were full of knowledge and learning, provided great opportunity and witnessed huge participation of students all across the college.

#### New variety of Sorghum 'CSH-43 MF' released

Spectacular outcome of the eight years of research of Dr. P.K. Pandey, Sorghum breeder



Contributed by: Mohit Singh Bohra B.Sc Agriculture, III<sup>rd</sup> Year



he Harbinger of green revolution in India, Govind Ballabh Pant University of Agriculture and technology has added yet another feather to its hat by releasing an advanced hybrid variety of Sorghum named CSH-43 MF. The variety seems to have potential to eradicate the problem of green fodder shortage in Uttarakhand hills. Due to geographical oddities, sufficient green fodder production is not feasible in this area. The developed variety has several advantages over the former ones such as plants remain green till the maturity of seed grains thus aiding sufficient green fodder availability. Enhanced taste, 74.6 % protein content, much higher yield than ordinary variety along with increased milk production from cattle fed on it, are some of the merits of this introduced variety. Further, CSH-43 MF gives 10% dry fodder and 5% more yield of green fodder than its own landmark hybrid CSH-24 MF that constitutes 16 to 17% of India's total fodder. 900-950 quintals per hectare is the average yield of



green fodder and 210-230 quintals per hectare is the dry fodder yield obtained from this variety.

Professor, Genetics and Plant Breeding, College of Agriculture and Sorghum Breeder, Dr P.K. Pandey has researched for almost eight long years to develop this variety under AICRP (All India Coordinated Research Program). He named the new variety 'CSH-43 MF' which was eventually selected for National level on 29th May by ICAR. Since much better results were obtained in Almora region trials, it is envisioned to solve the problem of green fodder deficiency in that area. Vice Chancellor, Dr. Tej Pratap, Research Director, Dr. Ajit Singh Nain, Dean, College of Agriculture Dr. SK Kashyap showed their utmost exuberance on Professor's achievement & incessant efforts by university for agricultural development.

## MOU signed by 1972 batch, an initiative of paying back to the Alma mater



Contributed by: Prachi Nagarkoti B.Sc Agriculture, III<sup>rd</sup> Year



Contributed by: Samiksha Yadav B.Sc Agriculture, III<sup>rd</sup> Year



ollege of Agriculture has taken great initiatives to build up alumni engagement with new and innovative ways. The idea is to utilize the vast reservoir of the alumni potential in favour of building capacity of the students in versatile manner. It is to mention that, the alumni of College of Agriculture have contributed immensely across into the world and their prolific experience is of immense utility for the students of the college. Speaking about this alignment, Dean Dr. S.K. Kashyap said, that the alumni of the college are very proactive and enthusiastic in supporting the college cause for which the college is creating system and structure to generate maximum benefit in the favour of undergraduate, postgraduate and Ph.D. students of the college.

#### An initiative of Batch 1972

In the light of the call of Dean Dr. S.K. Kashyap in context of endowment support, 1972 batch alumni came in front to support the college collectively by creating a Students Hub in the college. In this context a group of alumni of the college visited the



University on the 60th Foundation Day, 17 November, 2020 and signed a MOU with the college in the presence of Vice-Chancellor, Dr. Tej Partap & Dean Agriculture, Dr. S.K. Kashyap. The MOU emphasized upon creating the Students Hub in the college and to take the plan in a time phase manner with the support of 1972 batch alumni in leadership of the Dean of the college.

Speaking on the occasion, Vice Chancellor Dr. Tej Partap expressed his utmost pleasure in context of the motivation of 1972 batch to support the University cause. He praised the efforts of Dean Dr. Kashyap in this respect and said that such initiatives are the demand of the time with which infrastructure development and capacity building will become possible for the University. Dean Dr. S.K. Kashyap thanked the alumni and expressed his trust that other batches will also come together in the same manner to support their Alma mater in a big way so that the college may emerge as a prominent global hub for agricultural education, research and training.

Dr. Mukesh Gautam, the representative from 1972 batch expressed his gratitude to his batchmates Shri N.K. Arora, Shri V.S. Goyal, Shri S.S. Bakshi, Shri G.S. Pruthi and others for their solidarity to come together for the common cause and to lend the hand for completing the conviction of the batch. The alumni group cherished the reunion and appreciated the exemplary efforts made by the college in context of overall development of the students.



# Yogesh Dutt of College of Agriculture receives Chancellor's Gold Medal in 33<sup>rd</sup> Convocation

Students brought Accolades to College of Agriculture



Contributed by: Vanshika Gupta B.Sc Agriculture, III<sup>rd</sup> Year





niversity conducted its 33rd convocation on November 17, 2020, the foundation day of the University in online mode to ensure the safety of the students in the COVID-19 pandemic. Degrees were presented to about 1891 students of two academic years (2018-19 and 2019-20) combined. For the Academic year 2019-20, Chancellors' Gold Medal for

the outstanding performance was given to Yogesh Dutt (49868), B.Sc. Agriculture. Besides this, Kanika Bhatt (49842), B.Sc. Agriculture and Neha Chaubey (50163), B.Sc. Food Technology were awarded with VC's Gold Medal. VC's Silver Medal was

awarded to Anjali Rawat (49970), B.Sc. Ag. and Manisha Bhandari (50159), B.Sc. Food Technology. Neha Juyal (50055), B.Sc. Ag. was presented with VC's Bronze Medal.

For the Academic year 2018-19, Pratibha Bhatt (48415), Ankit Mahapatra (48432), Naina Bhatt (48313) of B.Sc. Agriculture were bestowed with VC's Gold Medal, Silver Medal and Bronze Medal respectively. The graduates of Food technology, Prachi Punetha (48639), Swati Joshi (48642) and Sristi Vats (48505) were also conferred VC's Gold, Silver and Bronze medal respectively. Further, the special awards for graduates of academic year 2018-19 and 2019-20, Dr. Ram

Shiromani Tiwari award for getting highest grade in B.Sc. Agriculture was given to Kanika Bhatt (2019-20) and Pratibha Bhatt (2018-19). Kanika Bhatt and Anjali Rawat for the year 2019-20 while Pratibha Bhatt and Ankit Mahapatra for 2018-19 also fetched Chaudhary Charan Singh Smriti Praitbha Puruskar.

Chancellor of the University, Governor Baby Rani Maurya extended her warm greetings to all the degree holders and wished them luck for their future. All the Deans and Staff members also extended their warm wishes to all the graduating students as well. The entire event was a great success. Dean Agriculture, Dr. S. K. Kashyap, reflected on the achievement of the students of Agriculture College and said that, it is a proud moment for the College as the illustrious and meritorious students nurtured in its premises have earned accolades at University level. He also congratulated all the degree recipients of the college who passed out with flying colours. Adding to it, Dr. Kashyap urged the passing out students to keep connected with their alma mater. The event ended in gracious manner in online mode.



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#### Official Youtube Channel of the College

https://www.youtube.com/channel/UCPMw8k8\_iO5zeor\_LQx6VFg