

Annual Report 2019-2020

Innovation cell is MHRD's initiative and has been established at AICTE premises with a purpose to systematically foster the culture of Innovation in all Higher Education Institutions (HEIs) across the country. The primary mandate of Innovation Cell is to encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities in their formative years fostered through Network of Innovation clubs in Higher Educational Institutions.

As per the invitation received by the university officials from the MHRD, the university formed a cell named 'Institution Innovation Council' (IIC) following the MHRD IIC guidelines. The university registered in the MHRD Innovation cell portal on dated 20-11-2018 with the following list of members:

Prof. Atul Dhyani (President), Dr. Alok Sagar Gautam (Convener), Mr. Prashant Thapliyal (Member), Mr. Azam Ali Khan (Member), Mr. Shashi Bhushan Joshi (Member), Mr. Harendra Garg (Member), Mr. Mahipal Singh Rawat (Member), Mr. Sumit Ringwal (Student co-ordinator).

After successfully registration in the MHRD Innovation cell, the information circulated among the IIC and departments of the university to get the participation in the innovation cell, and to get the innovative ideas from the different field to welfare of the society. On the basis of this exercise the following innovative ideas/event organised:

1. Science Outreach Exhibition Program on National Science Day (NSD) 2020 Celebration

Organizer: Department of Physics, School of Sciences, & Innovation cell of Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar Garhwal Uttarakhand

Theme: "Women in Science".

Department of Physics, School of Science organized Science Outreach Exhibition Program on National Science Day (NSD) 2020 Celebration followed by a popular lecture of eminent scientist Dr Rajendra Joshi, "New effect of Raman Spectroscopy: Cost Effective Raman and Fluorescence Spectroscopy in India" and Exhibition of posters, innovations, Debate and poster competition for Graduate/Post Graduate/Research Scholars and Faculty members of the University at Mini Folk Theatre Auditorium Chauras campus on 28-02-2020, Friday at 9.00 am onwards till 5.30 pm. About 500-600 Scientist/Faculty/Research Scholar/Students attended the event.

Prof N S Panwar, Finance Officer, Prof O P Gusain Director, IQAC, Dr R P Joshi, Chief Guest, Prof S C Bhatt, Convener, Prof T C Upadhyay, Head, Department of Physics Birla Campus and Coordinator of the event, Dr Alok Sagar Gautam, Organising secretary inaugurated the event. Winner of different different competitions awarded during inaugural session by dignitaries on the dais.

Prof Atul Dhyani, President, HNBGU Innovation cell, Dr Nitin Sati, Dr Vijay Kumar Jyoti, Dr Shubhra Kala, Prof Sarla Saklani, Dr Mukul Pant, Dr Heera Lal Yadav, Dr Vineet Kumar Maurya, Dr Somesh Thapliyal, Dr Prashant Thapliyal, Dr Manisha Nigam graced the occasion.

Chief Speaker Dr R P Joshi, Founder and CEO, RI Instruments India explained about the indigeneous Raman Spectra of 532 nm Laser when light interacts with molecules in a gas, liquid, or solid, the vast majority of the photons are dispersed or scattered at the same energy as the incident photons. He explained about the uses of Crystallization Processes, Polymorphism Identification, Polymerization Reactions, Hydrogenation Reactions, Chemical Synthesis, Biocatalysts and, Enzymatic Catalysis, Flow Chemistry, Bioprocess Monitoring, Synthesis Reactions.

In the second session Live demonstration performed by Dr R P Joshi and his team. He did the analysis of samples of various departments and gave physical interpretation of Raman Spectra. Prof H C Nainwal and Mr Aditya Misha from Department of Geology, Dr Alok Sagar Gautam, Dr Shubhra Kala, Ms Anju, Mr Sanjeev, Mr Karan, Ms Nidhi from Physics Department, Dr Prashant Thapliyal from USIC Department gave the samples for Raman Analysis.

2. Department of Physics and Innovation cell organized a popular lecture series of eminent scientist Professor Debashish Chowdhury, FNA, FASc, FNASc, J.C. Bose National Fellow, Department of Physics, Indian Institute of Technology, Kanpur 208016, India on the topic “Energy, Engines and Environment” on 12-13 March 2020 at 11:00 AM to 01:00 PM, Senate Hall Birla Campus Srinagar Uttarakhand under joint HNBGU-IQAC, HNBGU Srinagar-IIC’HNBGU Cell- IT Kanpur-INSA outreach program.
3. Popular Science Talk on “ Demand of memory space during and after COVID 19 by Mr Pradeep Kumar Rai, Director, Western Digital, California USA organized by Innovation cell and Department of Physics on 25.04.2020 through cisco webex meeting app. The topic of the talk was “Integrated Circuit semiconductor packaging & manufacturing for memory”. 129 participants (University, India and Abroad) got registered and participated in the event. Convener, Prof R C Ramola Sir welcomed to all participated and he told about the continuing activities of online teaching.

Mr Pradeep Rai exalplined about the significant impacts of Covid 19 in our day to day life. Whole world are online so there are huge demand of space storage. He said that very few foreign companies are in the market. He pointed out that Researchers from Physics and others should come forward to make the indigenous data storage devices. Co-ordinator, Dr Alok Sagar Gautam explained the need of hour to spread awareness and immediate solutions of Covid 19. Dr Meera Rawat chaired the question-answer session. Dr Poonam Semwal and Dr Tushar Kandari gave the vote of thanks.

4. International Webinar on Air Quality, Climate Change and the Environment Effects referring to the Pandemic COVID-19 Lockdown (02-03 May, 2020).

Institution's Innovation Council (IIC), Hemvati Nandan Bahuguna Garhwal University, Government Post Graduate College Gopeshwar and Aerosol Air Quality and Climate Research Society are jointly organizing the International Webinar on "Air Quality, Climate Change and the Environment Effects referring to the Pandemic COVID-19 Lockdown" during 02-03 May, 2020.

Day 1: 2nd May 2020

Prof Annpurna Nautiyal, Hon'ble Vice Chancellor, HNBGU Srinagar (Garhwal), Professor Anand Mohan, Registrar, Dayalbagh Educational Institute, Prof R C Ramola, Prof H C Nainwal, Prof R S Negi, Prof Seema Dhawan, Prof Mahabir Singh Negi, Prof Atul Dhyani, Dr. Heera Lal Yadav, Dr. Kuldeep Singh, HNB Garhwal University Srinagar Uttarakhand, Prof Archana Gupta, M J P Ruhelkhand University Bareilly, Prof Ajay Srivastava, St. Xavier College Ranchi inaugurated the International webinar. Dr. Naveen Kumar, Dr. Ranjit Kumar and Dr. Sudhanshu Shekhar Pandey, the keynote speaker of the first session was also present.

Prof Annpurna Nautiyal, Hon'ble Vice Chancellor, HNBGU Srinagar (Garhwal), emphasized on the effective utilization of the lockdown period on evolving new methodology of imparting education to all the students. She also told that COVID 19 isn't affected the academic activities as well as the research work of all the students and faculty members. She encouraged all the participants to innovate new techniques to fight against COVID 19.

Addressing the participants on this occasion, the Chief Guest Professor Anand Mohan, Registrar, Dayalbagh Educational Institute, spoke about the relevance of the topic and effective utilisation of the time during the lockdown.

Dr. Naveen Kumar, a Senior Resident Doctor in Department of Urology and Renal transplant, SGPGIMS Lucknow, discussed about the origin, structure and transmission of virus. He deliberated upon the symptoms and signs, diagnostic tests to detect the virus with its current and future effects. He also directed about the current guidelines and principles regarding managing COVID 19 and then about the preventive measures to halt its spread.

Dr. Ranjit Kumar, Assistant professor, Department of Chemistry, Dayalbagh Educational Institute, Agra deliberated on massive toll on human lives, health systems and the world economy at large, affecting both the demand and supply side effects. A health hazard has impacted global economy and also the social development of society. He focussed on the impact of COVID19 on global economy and the Sustainable Development Goals.

Dr. Sudhanshu Shekhar Pandey is a virologist who earned PhD degree from national AIDS Research Institute (ICMR), Pune. He has won many awards and scholarship including Fogarty Fellowship from National Institute of Health (NIH), USA. His presentation is entitled "COVID-19: Pandemic, Pathogenesis, Diagnosis and Management". He focused on SARS-CoV-2 virus, its origin and its spread all around the world, its epidemiology, total number of infections and deaths. He discussed the about the Coronavirus family its classification and Human coronaviruses. He also emphasised on the life cycle of SARS-CoV-2 in relation with potential drug and the targets. Diagnostic methods (both molecular/genetic test and antibody test) and challenges were also presented by him.

Dr. Chandana Chakraborty is presently in teaching profession in UAE. Due to her keen interest in science and scientific activities, from the past two years, she has joined a funded project in soil

and health department of UAE University. She has participated in many international seminars and published number of research papers in her field of interest. She focused on the effective utilization of time during the lockdown period. Since she is working on the soil health of UAE, she emphasized on encouraging people to have individual gardens, as most of the people here have big spacious villas, for spending quality time and enjoy the taste of organic food. It will also increase greenery and soil health in the long run. This organic food will be a boon for fresh supply of vegetables during crisis period like this. Healthy food will boost our immune systems to fight diseases in a better way. She also explained the methods of recycling kitchen water and wastes for the garden.

Prof. R C Ramola, former Director SRT campus HNBGU chaired the first session of the webinar. Seven renowned speakers from over the globe will deliver the keynote talk in the webinar. The participants shared their novel research in the area of climate change in the Lockdown period. Total 4 sessions will be organized in the two days webinar. The speakers include doctors, Academicians, virologist and scientist. Total 130 faculty and research scholars have participated in the webinar. More than 30 papers will be presented in the International webinar.

Convener Prof. Atul Dhyani, Co-Convener Prof. Seema Dhawan, coordinators Dr. Alok Sagar Gautam and Organizing Secretaries Dr. Poonam Semwal, Dr. Tushar Kandari and Dr. Prashant Thapliyal were also present during the inaugural function.

Day 2: 3rd May 2020

Dr. Alok Sagar Gautam welcomed all the Key note speaker and the participant on the second day of International webinar. In addition, he briefed about the highlights of the second day of the webinar. Prof. Seema Dhawan, Co-Convener of the International webinar emphasised on the online method of teaching and learning.

The first session of the second day was also chaired Prof. R C Ramola. He also spoke about the Aerosol Air Quality and Climate Research Society. He told that the society has promoted the young researchers and faculty to work in the field of various aspects of climate change.

The first key note speaker of the webinar was Dr. Rajan Sudesh Ratna. Dr. Rajan Sudesh Ratna, working as an Economic affairs officer in South and South West Office of United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP), New Delhi delivered the first key note talk of the International webinar. He delivered the talk on “Socio-economic impact assessment of Covid 19 on South Asia”.

The summary of his talk is as follows:

The outbreak of the novel corona virus 2019 (COVID-19) has extracted massive tolls on human lives, health systems and the world economy at large, affecting both the demand and supply side effects. A health hazard has impacted global economy and also the social development of society. A health pandemic has unsettled global economic and social conditions. The pandemic has resulted in 30,18,681 confirmed cases (66,005 New) and 2,07,973 deaths (5,376 New) in 213 country/territory/areas (WHO Situation Report 100 dated 29 April). Slowing down of the global economy due to COVID19 is clear now. Global GDP growth having fallen from 3.8% in 2017 to 3.6% in 2018 and is estimated to have decreased further to 2.9% in 2019 before rising to 3.3% in 2020. However, IMF estimated that global economy will shrink by 3% equivalent to around 9 trillion US\$. Forecast for India for 2020 is 1.9% growth only. He concluded by a suggestive remark i.e. Focussed policy interventions are necessary for attracting investments and

technology, becoming part of higher value chain, reforming social (including gender) and agriculture sector, infrastructure and financing.

Dr. S. P. Sati, Associate Professor, College of Forestry, Ranichauri, Uttarakhand delivered the key note talk on the topic “After corona world: A scientific assessment”. He discussed the effect and changes of corona virus on the human being in detail. This pandemic will be a game changer in the field of medical facilities in the world and the government will invest. All the people from different category in the society will be benefited by the improvement in the medical field and everyone will get the medical facility in India. The artificial intelligence will play a vital role in such scenario.

Dr. Atul Kumar Srivastava has completed his Ph.D. degree from Pune University and is currently working as Scientist-D at IITM, New Delhi Branch. He delivered the keynote talk on “Assessment of air pollutants over the IGB: Inference to the lockdown caused by COVID-19 pandemic”.

The summary of his talk is as follows:

Air quality has become a major challenge in recent time, particularly in developing nations, like India due to increased urbanization and increasing energy demand due to large population growth. Long-term exposure to bad air quality (due to enhance pollution) has potential threat not only to human health but also to the climate and thus our ecosystem. The current lockdown caused by the COVID-19 crisis may lead to lower the emissions across the world, including India due to decrease in traffic, construction and industrial activities. WHO (2016) reported that 37 cities from India feature in the top 100 cities of the world having worst PM_{2.5} pollutions, and the cities of Delhi, Kanpur, Gaya and Varanasi are listed in the top 10, which lies over the IGB. The current situation can be seen as positive as this could provide a valuable opportunity to assess to improve the levels of various air pollutants, especially PM in our ambient air and the impact of different emission sources on these levels.

Dr. Sarvan Kumar is an Assistant Professor in Department of Earth and Planetary Sciences, VBS Purvanchal University, UP, India. He did his Ph.D. from B.H.U. Allahabad. He worked as a research associate at IISER Bhopal and IITM Pune. He delivered the keynote talk on Effect of meteorological parameters on COVID-19 cases in India and air-quality during lockdown”

The summary of his talk is as follows:

Cold and dry (low absolute humidity) environments facilitate the survival and spread of droplet-mediated viral diseases. Warm and humid (high absolute humidity) environments see attenuated viral transmission like influenza and SARS (Schoeman and Fielding, 2019). It has been suggested that flu viruses are not easily transmitted in hot and humid conditions. If the aerosols can spread COVID-19, prevention and control will be much more difficult. Therefore the COVID-19 may spread through the aerosols if the sufficient amount of aerosols is present in the environment. Also, the reduction in aerosol concentration during the lockdown may reduce the risk of transmission of COVID-19 through aerosols. High absolute humidity regions like Maharashtra and Tamil Nadu are getting the maximum number of confirmed daily COVID-19 cases, so only the government’s strict mitigation strategies would be helpful.

The second session of the oral presentation of the second day was chaired by Dr Pawan Bharti Chauhan, SRI Delhi and Dr Surendra Pratap Singh, Govt Degree College Mainpuri. The participants focussed on the different aspects of the COVID-19.

The last session of the webinar was chaired Dr Yogendra Kumar Gautam, CCS University Meerut, Dr Krishna Kant Yadav, BHU Varanasi and Dr Vineet Kumar Maurya, HNBSU

Srinagar. In this session, Prof. Seema Dhawan discussed on the effect of COVID 19 on education and society. The last session was dedicated to the poster presentation.

The webinar ended with vote of thanks to all the key note speaker, participant and organizers by the coordinator, Dr. Alok Sagar Gautam. The organizer of the webinar include Convener Prof. Atul Dhyani, Co-Convener Prof. Seema Dhawan, coordinators Dr. Alok Sagar Gautam and Organizing Secretaries Dr. Tushar Kandari, Dr. Poonam Semwal and Dr. Prashant Thapliyal.



दो दिवसीय
अंतरराष्ट्रीय
वेबिनार

विशेषज्ञों ने कोरोना के कारण दुष्प्रभाव और बचाव बताए

श्रीनगर। कोविड-19 के विभिन्न बिंदुओं पर आयोजित दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ डीईआई आगरा के रजिस्ट्रार प्रो. आनंद मोहन ने किया। यह सम्मेलन गूगल मीट के माध्यम से डिजिटल प्लेटफॉर्म पर हुआ, जिसमें विशेषज्ञों ने कोविड-19 के कारण, दुष्प्रभाव एवं बचाव के उपाय सुझाए। सम्मेलन में करीब 159 ने प्रतिभाग किया। सम्मेलन की मेजबानी डॉ. हीरालाल यादव ने की।

कार्यशाला में गढ़वाल विवि की कुलपति प्रो. अन्नपूर्णा नौटियाल ने कहा कि यह वेबिनार कोविड-19 के प्रसार को रोकने में काफी मददगार साबित होगा। सम्मेलन का प्रथम सत्र प्रो. आरसी रमोला (एसआरटी कैम्पस) की अध्यक्षता में हुई। एसजीपीजी आईएमएस लखनऊ के डॉ. नवीन कुमार, डॉ.



गढ़वाल विवि में कोविड-19 पर हुई दो दिवसीय ऑनलाइन कार्यशाला को संबोधित करतीं कुलपति प्रो. अन्नपूर्णा नौटियाल।

रंजीत कुमार ने बताया कि भारत में लॉकडाउन से वायु की गुणवत्ता में सुधार हुआ है। सम्मेलन में दुबई में कार्यरत पर्यावरण विशेषज्ञ डॉ. चंदना चक्रवर्ती ने जैविक खाद्य संकट की अवधि में काम आने वाले शोध पर प्रकाश डाला। इस मौके पर कार्यक्रम के संयोजक डॉ. आलोक सागर गौतम, डॉ. सुधांशु

शेखर पांडे, सह समन्वयक प्रो. सीमा धवन, डॉ. तुषार कंडारी, डॉ. पूनम सेमवाल, डॉ. प्रशांत थपलियाल, प्रो. एचसी नैनवाल, प्रो. आरएस नेगी, प्रो. महावीर सिंह नेगी, प्रो. एचपी भट्ट, अभिषेक जोशी, संजीव कुमार, निधि गैरोला, तौफीक अहमद, करण सिंह आदि मौजूद थे।

5. Innovative Ideas/Research Proposal Competition to UG, PG, PhD Research Scholars & Faculty members of HNBGU Srinagar Uttarakhand

As per the guidelines of MHRD, Institute Innovation Cell, 'Institution Innovation Council' (IIC) of HNBGU, under the supervision of Hon'ble Vice Chancellor Prof Annpurna Nautiyal Ma'am, We conducted the Innovative Ideas/Research Proposal Competition to UG, PG, PhD Research Scholars & Faculty members of HNBGU Srinagar Uttarakhand.

HNBGU Srinagar Uttarakhand has taken the responsibility to contribute towards "Fight against Coronavirus" and is seeking solution(s) from the for UG, PG, PhD Research Scholars & Faculty

members on measures that can be adopted on priority basis to tackle this pandemic crisis of any one of the broad objectives

1. Migration of Humans 2. Supporting Health Care workers 3. Society Impact 4. Disease Breakout Pattern 5. Resource Distribution 6. Supporting essential services 7. Any Other appropriate

This Program targeted at empowering UG, PG, PhD Research Scholars & Faculty members to give or conduct research to develop potential spread of coronavirus. We got overwhelmed response from UG, PG, PhD Research Scholars & Faculty members of HNBSGU Srinagar Uttarakhand.

Committee of Prof Atul Dhyani, Dr Alok Sagar Gautam, Dr Prashant Thapliyal, Dr Vineet Kumar Maurya, Dr Brijesh Gangil and Dr Shweta verma examined and evaluated. On 09.05.2020, Results announced.

Faculty.

1st position

Dr Naveen Prakash Nautiyal

2nd position

Dr Prashant Arya

Research Scholar

1st position

शंकर सिंह

2nd position

Mukhtar Ahmed

3rd Position

Mr Dinesh Singh

PG student

1st position

Abhishek Bohare

2nd position

Shreya rawat

3rd Position

Suraj kumar

Consolation

Panshul Mishra

UG students

1st position

Spardha Tyagi

2nd position

Aditya Panwar

3rd Position

Niyanta vashisth

प्रतियोगिता में स्पर्धा, अभिषेक शंकर, नवीन रहें प्रथम

● गढ़वाल विवि के इन्नोवेशन सेल की ओर से प्रतियोगिता आयोजित

शाह टाइम्स संवाददाता श्रीनगर। हेमवती नंदन बहुगुणा गढ़वाल विश्वविद्यालय के इन्नोवेशन सेल की ओर से कोविड-19 को लेकर विवि के स्नातक स्नातकोत्तर छात्रों सहित शोधार्थियों एवं शिक्षकों के लिए शोध परक लेख प्रतियोगिता हेतु लेख आमंत्रित किए गए थे। गढ़वाल विवि की कुलपति प्रोफेसर अन्नपूर्णा नौटियाल की पहल पर विश्वविद्यालय के इन्नोवेशन सेल की ओर से कोविड-19 को लेकर इन्नोवेटिव आइडिया और रिसर्च प्रपा. जल मांगे गए थे।

विश्वविद्यालय ने इसे फाइट अगेस्ट कोरोना वायरस के तौर पर लिया है। इन्नोवेशन सेल के अध्यक्ष प्रो.अतुल ध्यानी और समन्वय डी. आलोक सागर गौतम, डॉ प्रशांत



थपलियाल, डॉ विनीत मौर्य, डॉ बृजेश गांगिल और श्वेता वर्मा इन्नोवेशन सेल के सदस्यों ने आज प्रतियोगिता के परिणामों की घोषणा की है। जिसमें स्नातक वर्ग में वानिकी विभाग के स्पर्धा त्यागी ने प्रथम, आदित्य पवार ने द्वितीय और नित्यंता वशिष्ठ ने तृतीय स्थान प्राप्त किया।

स्नातकोत्तर वर्ग में भौतिकी विभाग के अभिषेक बोहरे ने प्रथम, श्रेया रावत ने द्वितीय, सूरज कुमार तृतीय और प्रांशु मिश्रा भौतिक विभाग ने सात्वना पुरस्कार प्राप्त किया है। शोध छात्रों में शंकर सिंह शोध ने

प्रथम, मुख्तार अहमद ने द्वितीय और दिनेश सिंह ने तृतीय स्थान प्राप्त किया। शिक्षक वर्ग में डा. नवीन प्रकाश नौटियाल ने प्रथम और डा. प्रशांत आर्यन ने द्वितीय स्थान प्राप्त किया है।

डॉ गौतम ने बताया कि सभी विजेताओं को प्रमाण पत्र एवं पुरस्कार दिए जाएंगे। उन्होंने बताया कि विवि के सभी छात्र-छात्राओं, शोध छात्रों, शिक्षकों ने खूब बड़ चढ़कर भाग लिया और बेहतर लेखों को विषय विशेषज्ञ के द्वारा सहायता और शोध के लिए फंड जुटाने के लिए फंडिंग एजेंसी से भी सपोर्ट कराया जाएगा।

इस मौके पर विवि की कुलपति प्रो. अन्नपूर्णा नौटियाल, कुलसचिव प्रो. एनएस पंवार, वित्त अधिकारी डॉ एसके मोहंती और शोध एवं कंसल्टेंसी सेल के समन्वयक प्रो. एमसी नौटियाल ने सभी विजय छात्रों छात्र-छात्राओं शोध छात्रों एवं शिक्षकों को शुभाकामनाएं दी हैं। साथ ही छात्र- छात्राओं के कार्यों का सराहा।

INSTITUTION INNOVATION COUNCIL (IIC)

Innovation Cell, an initiative of Ministry of Education's Innovation Cell Institute Innovation Cell (IIC), has been established at AICTE premises with a purpose to systematically foster the culture of Innovation in all Higher Education Institutions (HEIs) across the country. The primary mandate of Innovation Cell is to encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities in their formative years fostered through Network of Innovation Clubs in HEIs. Following the Ministry of Education's Innovation Cell IIC guidelines, the university formed the 'Institution Innovation Council' (IIC) which was registered in the MHRD Innovation Cell portal on 20.11.2018. Since 20.11.2018, After successfully registration in the MOE's Innovation cell, the information circulated among the IIC and departments of the university to get the participation in the innovation cell, and to get the innovative ideas from the different field to welfare of the society and organising the activities as per the schedule of Ministry of Education's Innovation Cell Institute Innovation Cell (IIC).

Activities (2020-21)

1. Workshop on “Entrepreneurship and Innovation as Career Opportunity” on 28.10.2020 by Dr Prem Nath, workshop on My story – Motivation Session by Successful Innovators 25.11.2020 by Dr. Prashant Kumar Singh, Webinar on Product and Synergy- Operations de- Novo on 09.11.2020 by Mr. Mahipal Singh Rawat, Panel Discussion on Atmanirbhar Bharat- Vocal for local, Make in India for the world on 24.12.2020 by Mr. Sudhanshu Dangwal, Pitching workshop & linkage of innovators with Innovation Ambassadors on 24.12.2020 by Dr. Vikas Kukshal, Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship) on 30.12.2020 by Dr. Savita Mishra, KAPILA Kalam Program for IP Literacy and Awareness on 15-23 October 2020 by Dr Prem Nath, Orientation Session on National Innovation and Start-up Policy (NISP) on 14.01.2021 by Dr. Vikas Rajput organised. About 500 Scientists/Faculty/Research Scholar/Students attended the event.

Event Coordinator: Dr Alok Sagar Gautam (Convener)

IIC Council Meeting conducted to review of QI progress and Planning for QII on 01.01.2021 by All IIC HNBGU Members. Activities organised as per the scheduled planned by Ministry of Education’s Innovation Cell Institute Innovation Cell (IIC). Workshop on Design for social and sustainable development: “Emerging Principles and Approaches” on 02.02.2021 by Prof. Pradyumana Vyas, Workshop of Intellectual Property Rights (IPRs) and IP management for start up on 13.03.2021 by Dr Ashutosh Mishra, Orientation session for all students & faculties of Institute by Innovation Ambassador(s) on 19.03.2021 by Dr. Poorva Ranjan, Session/ Workshop on Business Model Canvas (BMS) on 23.03.2021 by Mr. Nilay Ranjan Singh organised.

President: Prof. Atul Dhyani, Department of Commerce; **Convener:** Dr. Alok Sagar Gautam, Department of Physics

Institute Innovation cell of Hemvati Nandan Bahuguna Garhwal University Srinagar Garhwal Uttarakhand has been promoting creativity, innovation and entrepreneurship among its students, Research Scholars and Faculty members. In view of the announcement of the Atmanirbhar Bharat, Local for Vocal etc. mission by the Government of India, it becomes all the more important to identify, recognise and support innovator and entrepreneur students, Research Scholars and Faculty members of HNBGU. In this context, IIC HNBGU conducted the competitions from HNBGU students, Research Scholars and Faculty members for IIC HNBGU Innovation Award. “ALGFLOW” innovated by Dr Rahul Kunwar Singh, Dr Preeti Singh, Mr Rahul Negi, “Virtual Mono Act in Garhwali Dialect - Dadi ki Seekh” by Prof. Manju Khanduri Pandey and “Low cost multidirectional UVC object disinfectant” by Mr Sanjeev Kumar and Dr Alok Sagar Gautam selected for the best innovation and awarded by IIC HNBGU.

President: Prof. Atul Dhyani, Department of Commerce; **Convener:** Dr. Alok Sagar Gautam, Department of Physics

Articles/Innovative Ideas/Research Proposal writing competitions COVID-19 Challenge organised to the Faculty, Research Scholars and Students. These Innovative Ideas/Research Proposals mentored by experts. In the faculty group, Dr Naveen Prakash Nautiyal & Dr Prashant Aryan got the First and second position respectively. In the group of Research Scholars, Mr Shankar Singh, Mukhtar Ahmed & Mr Dinesh Singh got the first, second and third positions respectively. In the Group of Post Graduate students, Mr Abhishek Bohare, Ms Shreya rawat, Mr Suraj kumar and Mr Panshul Mishra got the first, second, Third and Consolation positions respectively. In the Group of Under Graduate Students, Ms Spardha Tyagi, Mr Aditya Panwar, Ms Niyanta Vashisth got the First, Second and third position respectively.

President: Prof. Atul Dhyani, Department of Commerce; **Convener:** Dr. Alok Sagar Gautam, Department of Physics

