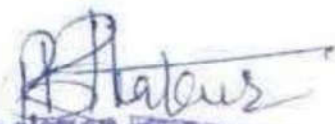


3.3.1 Innovation Ecosystem

Department of Geography has revised the course curriculum as per the latest developments in the subject and changing academic, societal, economic and environmental needs. The course curriculum at Masters level has been designed in such a way that one-fourth weightage has been given exclusively to the practical subjects and a perfect blend of theoretical and practical knowledge is ensured. The department has also included 4 full-fledged professional and job oriented course papers which include Cartography, Geographic Information System (GIS), Field Survey and Remote Sensing. All these four course papers have direct focus on building innovative and entrepreneurship capabilities among the students. Students after successful completion of Masters Programme in Geography can get employment as GIS analyst, field Surveyor or Remote Sensing analyst in any private organization or consultancy firm. The technical transfer of knowledge by the teachers to the taught has scope of employability also. Students are given complete exposure of preparing the maps using both cartographic and GIS skills. They are trained in using different GIS and Remote sensing softwares which are used in the commercial organizations. Students are also trained to design the interview schedules and questionnaires and conduct the primary surveys in the field. A special course paper with focus on the quantitative techniques in Geography has been introduced for this purpose alone. They learn to collect, analyse, process and interpret the data and write the project reports at the master's level. They are also taught to use the statistical techniques in their project reports.



Chairman
Department of Geography
H.P. University, Shimla-5

हिमाचल प्रदेश विज्ञान, प्रौद्योगिकी
पर्यावरण परिषद
एस.डी.ए कॉम्प्लेक्स, कसुम्पटी
शिमला - 171009



HIMACHAL PRADESH COUNCIL FOR SCIENCE,
TECHNOLOGY AND ENVIRONMENT
(HIMCOSTE)
34 SDA Complex, Kasumpti,
Shimla - 171009

Kunal Satyarthi, IFS
Member Secretary (EC)

D.O. No. 3827
Dated, the 10/09/18

Prof. S. Kander Kumar

Reference: Establishment of IPR Cell-regarding

This is in reference to D.O. No. 5794/5797 and 5798/5801 dated 28.10.2016 regarding establishment of Department of Science & Technology, Govt. Of India sponsored IPR cell in your University.

In this context, an amount of Rs. 40,000/- (Forty Thousand rupees) only for F.Y.2018-19 has been released in favour of IPR Cell for the activities to be carried out before 31st March, 2019 by the IPR Cell and is being deposited in the bank account as per the previous details provided by your University/Institution.

Please find enclosed herewith:

- Certificate for establishment of IPR Cell in your University for 2018-19
- Guidelines, terms and conditions for utilization of the grant of Rs.40,000/- in the F.Y 2018-19.

It is requested that the staff of HP PIC should be involved. Advance information be provided regarding the activities of your institution IPR Cell.

Chairperson
Dept of Sciences
13/9/18

With Regard

Yours Sincerely,

(Kunal Satyarthi)

Prof. Sikander Kumar
Vice Chancellor
Himachal Pradesh University,
Gyan-Path, Summer-Hill, Shimla-171 005 (H.P)

4. Gusha Sharma
Madam to kindly
do the needful
18-9-18

Prof. S. S. Kaphoor

05/10/2018



Rajesh Sharma,
IAS

हिमाचल प्रदेश विधानमालय

(सूचना विभाग)

फाइल नं. 3049
दि. 8/1/17

निदेशक उद्योग

DIRECTOR OF INDUSTRIES

GOVERNMENT OF HIMACHAL PRADESH

SHIMLA-171 001 (INDIA)

Tel. : Office: 0177-2813414

03 JAN 2017

Subject: - Chief Minister's Startup/Innovation Projects/New Industries Scheme.

Respected Prof. Bajpai, Jaikind

The Government of Himachal Pradesh vide notification No. Ind. II(F)12-3/2015 dated 15.11.2016 has notified a new scheme titled "Chief Minister's Startup/Innovation Projects/New Industries Scheme" in order to give support to the "Startup/ innovation Projects in the State and to develop and fine tune the entrepreneurial skills of the youth/potential investors. I am enclosing copy of this scheme for kind perusal & further action. A perusal of this scheme would indicate that Host Institutes are to be encouraged for entrepreneurship development & for setting up incubators to galvanize the Startups by providing requisite eco system in the State.

In case your institute is already having incubator facility then as per Para 6.1 of the scheme the State Government would like to enter into MOU with your institute in order to help & promote Startups & new industries in the State. However, if your institute is not an established incubator, then you are requested to kindly generate a proposal for setting up an incubator in your institute as per the format enclosed alongwith the scheme. In this context you are requested to kindly have a look at the provisions contained in Para 7 which elaborates incentives available under the scheme which may be provided to the innovative entrepreneurs and to the incubators. Based on your proposal the MOU for setting up & running the incubator facility can be entered into.

You are therefore requested to kindly generate an appropriate proposal in this regard and send it to my office in the prescribed format (copy of which is also enclosed) so as to enable us to initiate suitable steps for setting up of an Incubator in your esteemed institute or for allocating the interested young entrepreneurs to the incubators already set up by you.

Your personal intervention in this regard for an expeditious response in the matter would be highly appreciated. Looking forward for a meaningful partnership with your esteemed institute.

Sincerely yours,

(Rajesh Sharma)

Encls: As above.

Prof. A.D.N Bajpai
Vice Chancellor, HPU,
Shimla.

6.6.3 HPCED would be the friend, Mentor and guide to hold the hands of potential entrepreneurs and walk with them throughout their Journey. The support center can also rope in industrial organizational partners/institutions such as CII, PHDCCI, ASSOCHAM, FICCI, MSME institutions, etc. to expose; orient and support the startups and new industries/entrepreneurs to take up commercial production.

6.6.4 A programme would be chalked out by HPCED to send selected startups, college and school students, faculty etc., with the approval of EC to leading startup destinations in the country and abroad for getting exposure as well as an opportunity to meet and converse with industry leaders, thinkers and innovators. Provision shall be made to ensure 1/3rd representation of women entrepreneurs, Students and teachers etc.

6.6.5 The HPCED would be provided need based grant starting with Rs. 1.00 crore per annum to perform the role assigned to it under the Scheme, to reimburse the cost of the institutions, and to meet out expenses towards trainings, exposure visits, handholding, etc.

7. Incentives

7.1 Support to Innovation Projects

7.1.1 The incentives under this scheme to the Innovation Projects will be as under:-

- a) Rs. 25,000/- per month will be provided to the innovation projects as sustenance allowance for one year whose project is recommended by the Host Institution and approved by the Empowered Committee.
- b) Incubation center will provide support to the startups and innovation projects by providing mentoring services, access to their labs, facilities, etc. on a free-of-cost (FOC) basis.
- c) Marketing/commercialization assistance of maximum of Rs. 10 lakh will be provided to the innovation project to launch its products/services in the market. The assistance will be provided in the following manner:-
 - (i) It can be given to an innovation project where he has secured funding maximum 25% from a known and registered angel/venture funds/reputed incubator. The amount could be disbursed as purely/partly grants or soft loan/equity on a case-to-case basis as has been given by registered angel/venture funds/reputed incubator.
Or
 - (ii) It can be given as matching assistance to reputed incubators established by the HIs to fund innovation project as part of accelerator programme as purely/partly grants or soft loan/equity on a case-to-case basis.
- d) Patent Filing Cost: The cost of filing and processing of patent application will be reimbursed to the incubated startup companies subject to a limit of

Rs. 2 lakh (0.2 million) per Indian patent awarded or actual cost incurred, whichever is less. For awarded foreign patents on a single subject matter, up to Rs. 10 lakh (1 Million) or actual cost incurred, whichever is less would be reimbursed. The reimbursement will be done in 2 stages, i.e., 75% after the patent is filed and the balance 25% after the patent is granted. This incentive shall be routed through the incubator concerned.

7.2 Incubators

7.2.1 The incentives under this scheme which may be provided to the Incubators may include any or all of the following incentives as per their eligibility:-

- (i) Financial assistance will be provided for three years to the selected institutions for setting up the incubator and other activities. The maximum financial assistance will be provided @ Rs. 30 lakh per incubator per year upto a period of three years. In addition the related incubators will be entitled for a grant of maximum Rs.10.00 lakh for meeting the recurring expenditure actually incurred as per table mentioned below. The subsequent grant will be based on performance of the incubator. Each incubator will be assisted as follows:-

a) Grants for supporting operational expenses in the incubator e.g. Salaries of Regional Coordinators, mentoring programs, networking meetings, conducting Hackathons, etc.	Break up Financial Limit 2 Lakh
b) Annual Financial support for projects for Training and <u>Capacity Building</u> for Faculty and students.	2 Lakh
c) Exposure to Support and Network Programs conducted by the departments concerned.	1 lakh
d) Opportunity to visit National/ International startup destinations.	2 Lakh
→ e) Internship Stipends.	2Lakh
f) Miscellaneous other expenses & Administrative charges.	1Lakh
Total	10.0 lakh

- (ii) In case of Govt. owned building is leased to an incubator, no lease rent or O & M charges will be levied for a period of five years or until the incubator is self-sustainable, whichever is earlier. In case where private premises are taken on lease/rent basis, a rental reimbursement @ Rs. 5 per sq.ft. per month or 25% of the actual rent paid, whichever is less, shall be reimbursed for a period of 3 years. This shall be limited to the incubation space only.

- (iii) In case of incubator set up in private sector, an investment subsidy of 20% of the value of capital expenditure, other than land building, shall be provided to

Section is hereby awarded for the approval of the proposed Skill Vigyan Program for
 Himachal Pradesh University, Shimla at total cost of Rs. 43,00,000 (Rupees Forty-three
 Lakhs and Fifty Thousand Only) for the first three years. The budget details are given
 below:

B. Budget Allocation for three years period:

Sr. No.	Name of partner Institution and Training Program	Year wise Budget Allocation (in Lakhs)				Total Budget (in Lakhs)
		Year I	Year II	Year III	Year IV	
1.	Himachal Pradesh University, Shimla	21.64	21.64	21.64	21.64	86.56
2.	Quality Council Himachal Pradesh					
3.	275 Students per Training Program/2 Training Programs/Year					
4.	15,000/- per day for 22 students					
5.	10,000/- per day for 22 students					
6.	5,000/- per day for 22 students					
7.	2,500/- per day for 22 students					
8.	1,250/- per day for 22 students					
9.	625/- per day for 22 students					
10.	312.50/- per day for 22 students					
11.	156.25/- per day for 22 students					
12.	78.12/- per day for 22 students					
13.	39.06/- per day for 22 students					
14.	19.53/- per day for 22 students					
15.	9.76/- per day for 22 students					
16.	4.88/- per day for 22 students					
17.	2.44/- per day for 22 students					
18.	1.22/- per day for 22 students					
19.	0.61/- per day for 22 students					
20.	0.30/- per day for 22 students					
21.	0.15/- per day for 22 students					
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Dr. S. K. Sharma
 Director, Skill Vigyan Program
 Himachal Pradesh University, Shimla

(A) Budget Break-up (Component wise):
 Student Training Program and Technical Training Program (Duration 13 Months):

Sr. No.	Head	Budget for 25 students for one training program/ year (in Rs.)	Budget for 25 students for two training programs/ year (in Rs.)
1.	Contingencies @ Rs. 10,000/- students	2,50,000/-	2,50,000/-
2.	Contingency @ Rs. 25,000/- year	25,000/-	50,000/-
3.	Travel Expenses for experts Faculty and Students for field work (Rs. 20,000/- year)	20,000/-	40,000/-
4.	Visiting Faculty Experts (Rs. 40,000/- year)	40,000/-	80,000/-
5.	Stipendship as per eligibility (Rs. 10,000/- p.m. for 3 months for 25 students)	7,50,000/-	15,00,000/-
6.	Maintenance grant for equipment/ Assets/Accessories	50,000/-	100,000/-
	Total	11,69,000/-	23,40,000/-

Certification of Program: Himachal Pradesh University, Shimla will sign the MoA/MoU with HIMCOSYTE for implementation of DBT, Gov sponsored Skill Vigyan Program.

(D) Name and address of institution and course coordinator are mentioned below:

Sr. No.	Name of Institution	Name of Course Coordinator and Designation
1.	Himachal Pradesh University, Shimla	Prof. S.S. Kataria Department of Biosciences

- MoA will be signed and accepted between Himachal Pradesh University, Shimla and Himachal Pradesh Council for Science, Technology and Environment (HIMCOSYTE) before release of first year grant by HIMCOSYTE.
- The institute is required to implement the program as per the terms and conditions given in Annexure-II.
- Selection of students for Skill Vigyan Program will be made through Common Entrance Test for Skill Vigyan Program at State Level conducted by HIMCOSYTE.

4. The Nodal officer will be the full time course coordinator for Skill Vigyan Program and will submit utilization certificate and statement of expenditure daily signed by competent authorities in duplicate at the end of financial year and consolidated EC & SOI after completion of the program, along with the refund of unspent balance, if any.

5. The institute will keep the grant in a separate earning interest Bank Account. The interest so earned should be reported to HIMCOSYTE in the Utilization Certificate and Statement of Expenditure. The interest so earned will be returned by 31st March every year positively and shall not be adjusted towards subsequent instalment of the grant until at the time of Final Refund of Accounts.

6. The accounts of the program to be maintained by Himachal Pradesh University, Shimla shall be open to inspection by the sanctioning authority/audit.

7. All payments to be transferred to all beneficiaries including all vendors and students by RTGS only & no payment will be made in cash.

Member Secretary (EC)
 HIMCOSYTE, Shimla

Copy for
 1. Vice-Chancellor, Himachal Pradesh University, Shimla
 2. AC (P&A), HIMCOSYTE

Member Secretary (EC)
 HIMCOSYTE, Shimla

"Funding Opportunities for the entrepreneurship"

Event Report

Mr. Rajeshwar Thakur, Manager Deptt. of Industries, Govt. of HP, held a session today, January 20th, 2018, titled "Funding Alternatives for Entrepreneurship," to educate young, aspiring entrepreneurs about the numerous funding opportunities available in this field. Mr. Rajeshwar Thakur was formally greeted and presented to the audience by Dr. Bhatia, Manager, BIC-HPU. Faculty members, master students, research scholars from the department, and BIC-HPU incubatees Mr. Pradeep Kumar (BioCleaner), Mr. Rakesh Kumar (HimBioEnergy), Mr. Des Raj (Back To Hills), Mr. Ankur Pareek (Pirates of Paravati), Ms. Abhilasha Chauhan (Green Energy), and Ms. Deepika Nandini (Herbage) were also present.

Mr. Thakur began his presentation by discussing numerous programmes and financing possibilities launched by the Department of Industries Govt. of HP, Startup India Govt. of India, and others, as well as the Department of Science and Technology Govt. of India. Entrepreneurs from diverse fields, as well as master students and research academics, posed questions on the many funding alternatives accessible for businesses. BIC-IIPU incubatees also inquired about alternative financing options available for current firms through different other organisations in order to obtain cash to commercialise their prototypes. Mr. Thakur praised the efforts made by Prof. A K Bhatt, In-charge BIC-HPU, to build facilities at the centre for incubatees after a good conversation with incubatees, research scholars, and all other participants.

Dr. Bhatia concluded the meeting by thanking the officials and other participants.


In-charge
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

Funding opportunities for the entrepreneurs At BIC-HPU Shimla

20th Jan, 2018




Incharge
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

"Sensitization of students regarding CM Startup scheme and various incentives"

Event Report

On August 30th, 2018, the Biotechnology Incubation Centre (BIC-HPU) hosted a one-day startup awareness camp with the subject "Sensitization of students about the CM Startup programme and other incentives" to inspire the university's fresh, blossoming brains. Ms. Deepika Khatri, Coordinator HPCED Deptt. of Industries, Govt. of HP, served as the event's resource person.

Dr. Ravi Kant Bhatia, Manager BIC-HPU, presented Ms. Deepika to the audience and explained them about how efficiently Ms. Deepika handled this programme and gave honour to the Department of Industries, Government of HP. Only her selfless efforts enabled the state government to be named the greatest rising start-up destination/hub in the Himalayan Region. Currently, the Biotechnology Incubation Centre is incubating more than 15 start-ups, some of which have commercialised their concepts and are performing well in the market.

Ms. Deepika informed the audience that the Government of HP's Department of Industries has introduced the "Chief Minister's Startup/Innovation Projects/New Industries Scheme" to assist educated youngsters in becoming successful entrepreneurs. The initiative anticipates a number of incentives for start-ups to assist them in their endeavours. The initiative also funds the construction of incubation centres at host institutions to improve capacities, stimulate networking, provide necessary infrastructure, and increase awareness. This programme also aims to help entrepreneurs pick viable ideas in promising sectors of the manufacturing and service industries, as well as educate them how to develop start-ups and subsequently manage and run their enterprises professionally. Ms. Deepika also encouraged students and intellectuals to explore entrepreneurship in order to become employment creators rather than job seekers.

Dr. Bhatia concluded the session with a cup of tea and a vote of gratitude to the dignitaries and attendees, following a lengthy discussion on start-up programmes and policies.


Incharge 11/11/21
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

Sensitization of students regarding CM Startup scheme and various incentives

At
BIC-HPU Shimla

30th Aug, 2018




Incharge 1/11/21
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

"Talent Hunt for New Innovations"

Event Report

On November 16, 2018, the Biotechnology Incubation Centre Department of Biotechnology, in collaboration with the Department of Industries, Government of HP, held a Talent Hunt with the topic "Talent Hunt for New Innovations." This programme drew about 200 children from various schools in Shimla and the surrounding districts.

Judges for the competition were Prof. Reena Gupta of the Department of Biotechnology, Prof. Sushma Sharma of the Department of Life Sciences, Prof. Shashi Kant of the Department of Chemistry, Prof. P. L. Sharma of the Department of Mathematics, and Prof. P.K. Ahluwalia of the Department of Physics. Dr. Ravi Kant Bhatia, Manager of BIC-IIPU, presented the students to the themes, which included Renewable Energy, Waste Management, Water Conservation, Climate Change, and Cyber Security.

Dr. Bhatia also briefed the participants about the contest's many criteria, rules, and restrictions. Students have been given one hour to provide a written summary of their concept. Following the activity/write-up from the students, the judges evaluated all entries/ideas for innovativeness, freshness, and whether or not they presented a scientific answer. Three of the top concepts were chosen for the first, second, and third awards based on these criteria. Following the occasion, Prof. Arvind Kumar Bhatt declared the winners.

HP University's Hon'ble Pro-Vice Chancellor Prof. Rajender Singh Chauhan gave the awards to the winners. With his warm comments, the Hon'ble Vice Chancellor further inspired the young brains and praised their aim of bringing new answers to many local and global concerns. Dr. Bhatia, Manager BIC-IIPU, concluded the ceremony with a vote of gratitude to the dignitaries and all attendees.


Incharge
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

Talent Hunt for new Innovations

At

HPU Auditorium Shimla

16th Nov, 2018




Incharge 11/11/21
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

"Awareness workshop for research scholars to pursue entrepreneurship"

Event Report

Today, on December 27, 2018, Mr. R.D. Dhiman, Principal Secretary Industries, and Mr. Rejsesh Sharma, Director Industries, Govt. of HP) visited the Biotechnology Incubation Centre HPU (BIC-HPU) Shimla to interact with existing incubatees and motivate research scholars on how their research can lead to entrepreneurship. Prof. A.K. Bhatt, In-Charge of the BIC-HPU, formally greeted the officials and informed them on the various activities and facilities available to incubatees at the BIC-HPU.

During the session, all faculty members, including Prof. S. S. Kanwar, Prof. Reena Gupta, Dr. Savitri, Mrs. Manisha Kohali, and a number of research researchers from HP University Shimla's various departments, were present. Mr. Desh Raj (BackToHills), Mr. Rakesh Kumar (BioTechCleanser), Ms. Jeevan Lata (HimProBiotics), Ms. Kiran (TropBiosensor), and Kishore Garg (HimPerfumary) also attended. All officials from the Department of Industries visited the centre as well as the Department of Biotechnology and were pleased with the infrastructural facilities built at BIC-HPU for incubatees, as well as closely monitoring the Department's varied research activities.

Later, Mr. Dhiman interacted with M. Phil and Ph. D research academics, encouraging them to connect their study with business. He also suggested that the researchers focus on some unique ideas that may give a long-term answer to many social, industrial, and economic concerns. Mr. Rajesh Sharma, Director Industries, engaged with the incubatees and reviewed the progress of their startup concepts, as well as numerous obstacles and difficulties they were experiencing at the centre. He also discussed with the incubatees how their prototypes worked and the challenges they encountered. Dr. Ravi Kant, Manager, BIC-HPU, offered a vote of thanks at the end of the session.


Incharge 11/11/21
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

"One day pitching session on Entrepreneurial opportunities in waste to wealth"

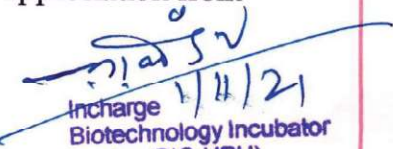
Event Report

On August 7th, 2019, the Biotechnology Incubation Centre (BIC-HPU) hosted a one-day pitching session with the theme "Entrepreneurial Opportunities in Waste to Wealth" for researchers and motivated innovators looking to propose new solutions to different waste-related concerns. The resource person for judging the most inventive proposal was Mr. Amit Kumar Jain, CMD of BijSon Innovations Pvt. Ltd., Jaipur.

Dr. Ravi Kant Bhatia, Manager, BIC-HPU, presented the attendees to the event's subjects and their significance in the current context. Dr. Bhatia also briefed the participants about the contest's many criteria, rules, and restrictions. Participants were given one hour to explain their concept and make a presentation in front of the investor, Mr. Amit Jain. All competitors' presentations were assessed based on their innovativeness, freshness, and whether or not they presented a scientific answer to waste management.

Mr. Jain chose the finest concept from Mr. Rakesh Kumar of BioCleanser and expressed interest in investing in his ideas. Mr. Jain also spoke with all of the participants, encouraging them to consider how their little creative projects may assist to manage garbage more effectively and clean the environment by reaping monetary benefits from waste. Mr. Jain also informed the participants about his company and the various waste management projects that are being run across the country to solve one of the most difficult problems in human society, in which nobody wants to start their own business, but if someone is brave enough to take on this challenge, then he can make a million-rupee business out of waste.

This not only assists society and the environment in getting rid of troublesome garbage, but it also assists in earning money from it. At the end of the event, Mr. Jain awarded awards to the top three concepts and promised BioCleanser assistance as well as investment in his firm. Following the award distribution ceremony, the evening concluded with a cup of tea and a vote of appreciation from Dr. Bhatia to Mr. Jain and the participants.


Incharge 1/11/21
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

Event Pictures



Visit of Add. Chf. Secy (Ind.) Govt. of H.P.

Sh. R.D. Sharma and

Sh. Rajesh Sharma, Director (Ind.)
GoHP.

[Signature]
Incharge
Biotechnology Incubator
Centre (BIC-HPU)
Deptt. of Biotechnology
Himachal Pradesh University
Summerhill, Shimla-171005 H.P.

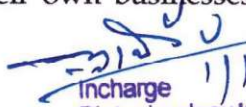
"One day seminar on Strategies for Lab Research to Market"

Event Report

A one-day workshop was organised on September 28th, 2019 by the Biotechnology Incubation Centre HPU (BIC-HPU) in collaboration with the Department of Industries, Government of Himachal Pradesh. The session began at 2:00 p.m. in the seminar hall of the Department of Law, presided over by the Hon'ble Vice Chancellor, Prof. Rajender Singh Chauhan. Mr. Udayan Chandra was joined by Sh. Rajeshwar Thakur and Ms. Deepika Khatri from the State Industry Department. The speaker and facilitator was the In-charge of the DBT-BIRAC Biotechnology Business Incubation Facility (BBIF) Foundation for Innovation and Technology Transfer (FITT) at the Indian Institute of Technology (IIT) Delhi, along with his team.

This event drew a large number of research scientists and faculty members from science, humanities, commerce, management, education, and other fields. Dr. Savitri from HPU Shimla's Department of Biotechnology, Dr. Kuldeep Singh, Dr. M.S. Negi, and Dr. U.D. Sharma from HPU-Institute of Integrated Himalayan Studies also attended the session. The workshop was opened by the Hon'ble Vice Chancellor and Prof. A. K. Bhatt, In-Charge of BIC-HPU. Prof. A.K. Bhatt welcomed everyone in the audience and dignitaries who were present at the workshop. He briefed the attendees and delegates on the BIC-HPU and its operations.

He encouraged students and researchers to join start-ups and become successful entrepreneurs as incubatees at BIC-HPU. He stated that BIC-HPU will assist them and develop their business ideas till they are commercialised. He also discussed other incentives provided by the Industry Department to new start-ups, such as no licencing fee, self-certification for all types of documents, financial assistance up to \$1 million to file a patent, providing land in industrial hubs, product marketing assistance up to \$10 million, and then commercialization of the product through various government channels. He informed the gathering that HPU Shimla was also providing financial aid to the BTIC-HPU for its smooth operation, for which he thanked the Honourable Vice Chancellor. The Honourable Vice Chancellor then addressed the participants, encouraging them to create their own businesses using fresh ideas and creativity.


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Dr. Ravi Kant Bhatia then formally introduced Dr. Udayan Chandra to the gathering. Dr. Bhatia spoke about Dr. Chandra's initiative and management efforts at FITT-IIT Delhi for the development of start-ups, and he invited him to present his session to help attendees comprehend the various BIRAC-DB initiatives. Dr. Chandra stated that IIT-Delhi established its entrepreneur unit in 1997. FITT initially focused on engineering breakthroughs and answers to different social challenges, but in 2009, they began incubating numerous life science/biotechnology-based start-ups. He added that FITT-IIT Delhi began as a non-profit organisation but today earns roughly \$60 million in revenue thanks to stock contributions from several successful businesses. He stated that FITT has filed over 500 patents and nurtured 60 distinct successful startups to date.

Dr. Chandra went on to say that FITT provides all of the necessary facilities and mentoring under one roof. FITT delivers all conceivable scientific contributions, whether they are connected to prototype creation or refining, patent filing, marketing strategy formulation, or successful market commercialization of the product. Dr. Chandra then addressed the BIRAC-DBT and its many start-up schemes, as well as the BIRAC's BIG grant and several other financing schemes from the Centre and state governments to which new start-ups might apply. According to him, a new start-up can receive a grant ranging from Rs. 50 lakh to Rs. 1 crore based on the innovativeness, freshness, and commercial viability of the start-up idea.

Finally, Dr. Chandra shared the experiences of several successful entrepreneurs in order to inspire attendees to launch their own businesses with the support of BIRAC and other grants. Participants answered questions regarding the start-up, funding, incubation centres, facilities supplied by these centres, and other technical challenges that a start-up may encounter along its entrepreneurial journey at the end of his discussion. Prof. A. K. Bhatt gave the audience a vote of gratitude at the close of the workshop, and the Hon'ble Vice Chancellor distributed certificates to all the participants.


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"Bio-entrepreneurship: Opportunities and Challenges"

5th Oct. 2019

Event Report

Today on 5th October 2019, Dr. Arun Kumar Ninawe Chief Scientist DBT Govt. of India delivered a talk entitled **"Bio-entrepreneurship: Opportunities and Challenges"** to motivate the young budding minds as well as to provide information on various opportunities available to the bio-entrepreneurs and how to overcome various challenges in this sector. Prof. A.K. Bhatt In-charge BIC-HPU formally welcomed and introduced Dr. Arun Kumar Ninawe to the audience. Faculty members, master students, research scholars from the department and incubatees Mr. Kishore Garg (HimPerfumary), Mr. Dharmendra Kumar (HimAquaPine), Ms. Abhilasha Chauhan (Green Energy), Mr. Arvind Kaptre (BioGenNext) working under BIC-HPU showed their presence.

Dr. Ninawe started his talk with various initiatives and funding opportunities started by the Department of Biotechnology for the students and institutions. Later on Dr. Ninawe discussed about the BIRAC a premier branch of DBT that is helping the new start-ups/Bio-entrepreneur to commercialise their products service etc. being developed by them while pursuing their research carrier. Number of master students and research scholars also asked questions related to various opportunities in this sector which were answered by Dr. Ninawe satisfactorily. Incubatees of BIC-HPU also enquired about other funding opportunities available for them through various other agencies so that they can commercialise their prototypes. Dr. Ninawe also motivated the incubatees with his kind message to pursue their dreams so that they not only get profit from their business but also help the country to create job opportunities.

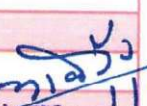
After a healthy discussion with incubatees and research scholars Dr. Ninawe appreciated the efforts made by Prof. A K Bhatt In-charge BIC-HPU for creating facilities at the centre for incubatees.

At the end of the discussion Dr. Ravi Kant Manager BIC-HPU offered vote of thanks to the officials and other participants.


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Event Pictures



Visit of Dr. A.K. Mishra, Advisor - DBT
Govt. of India to BIC

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National Workshop "Startup Schemes and Policies"
20th December 2019

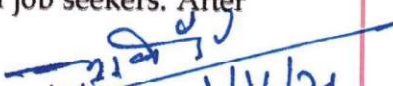
Event Report

Biotechnology Incubation Centre (BIC-HPU) organised one day workshop on the theme **"Startup scheme and Policies"** to motivate the young budding minds of various department of the university. Prof. Arvind Kumar Bhatt In-charge Biotechnology Incubation Centre was the resource person for this one day workshop.

Dr. Ravi Kant Bhatia Manager BIC-HPU introduced Prof. Bhatt to the audience and informed that how the tired less efforts of Prof. Bhatt bring laurels to the Department by starting Biotechnology Incubation Centre that is presently incubating more than 30+ start-ups and some which are doing wonderful business in the market beside providing new job opportunities to the youths of Himachal Pradesh.

Prof. Bhatt informed the audience that the Department of Industries, Government of HP, has launched the "Chief Minister's Startup/Innovation Projects/New Industries Scheme" to help educated youths to become successful entrepreneurs. The program envisions a variety of incentives for start-ups in order to help them in their enterprises. The program also provides funding for the establishment of incubation centres in the host universities in order to strengthen capacities, promote networking, provide required infrastructure, and raise awareness. The primary goal of this scheme is to promote self-employment and job creation, to upgrade entrepreneurs' skills and to assist them in establishing their units under professional guidance, to promote innovation in focus areas, to establish incubation centres, to create working space for start-ups and innovative projects, to provide incentives, and so on. This Scheme also seeks to assist entrepreneurs in selecting feasible projects in prospective areas of manufacturing and service industries, as well as teach them to build up start-ups and then manage and run their businesses professionally.

Prof. Bhatt also motivated the students and scholars to pursue entrepreneurship so that they can become job provide rather than job seekers. After


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a detailed discussion on start-up schemes and policies, workshop ended with a cup of tea and vote of thanks to the dignitaries and participants by Dr. Bhatia.

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Event Pictures



Facilitation of Chief Guest, Prof. Arvind Kalia, Dean of
Studies and Prof. Neeraj Kumar, Convenor ISCA Study
Chapter


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"Indigenous and Translational Approach in Entrepreneurship"

17th -19th July 2020

Event Report

A three day workshop has been started by Biotechnology Incubation Centre Department of Biotechnology in association with Indian Science Congress Shimla Chapter from 17th- 19th July 2020 on the theme **"Indigenous and Translational Approach in Entrepreneurship"**. A number of students, scholars throughout the country participated in this event.

Hon'ble Vice chancellor Himachal Pradesh Prof. Sikander Kumar inaugurated the event. Prof. PK Ahluwalia, Scientist Emeritus, Department of Physics HPU delivered his talk on "Science, Scientific Temper and Indigenous Knowledge". Prof. Ahluwalia also urged that students should take up the entrepreneurship and provide solution to various local/rural/urban problems with amalgamation of scientific knowledge. Dr. Brij Lal from IHBT Palampur provided important information on the topic "Usefulness of indigenous traditional knowledge in product development" and informed the audience that how our traditional knowledge can be utilised to developed a number of industrially/commercial important products for various uses to ease the life of common people. Various important talks also delivered by eminent professors and scientists Prof. Bal Ram Singh & Dr. Suhas Kshirsagar from USA, Dr. B. Mahapatra, CRI Kasauli, Dr. Arun Sharma Director CFSL Shimla, Prof. Rajat Sandhir Punjab University Chandigarh on second/third day and all motivated the audience and emphasized on the need of connecting traditional and modern knowledge with entrepreneurship to develop new and innovative solution to various problems to make the India self-reliant in every aspect. This three day event ended with the talk of Dr. Sanjay Kumar Director IHBT the renowned scientist having number of innovations in his credit that are being commercialised and showed their presence in the market. Dr. Sanjay motivated the students, scholars and audience for developing new product and services by utilising various schemes and policies being started and implemented by the state and central Governments so that they can contribute in the development of country.

This three day event ended with vote of thanks offered by Dr. Bhatia Manager BIC-HPU to the dignitaries and all the participants.


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Event Pictures




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"Explorare 1.0: Unique Ideation Competition"
Online Event on 18th March 2021

Event Report

Science, Technology and Innovation have emerged as the major drivers to achieve sustainability and state development. With this aim, Biotechnology Incubation Centre of Himachal Pradesh University came up with a competition - **Explorare 1.0: Unique Ideation Competition** for the students across state to integrate innovation midst the younger generation. The competition offered a great opportunity to students to explore their hidden talent and motivate them to come up with innovative ideas for pressing societal problems faced by the state today.

Ideas were called under Biotechnology and Microbiology related fields which help in achieving Sustainable Development Goals. The entries were invited through Google Forms in which abstract of 150-200 words and presentation of 10 slides were asked to submit. Students could participate either individually or in teams (not more than 5). Only one idea per individual or team was allowed. The winners of the competition would get incubation opportunity at BIC-HPU (given that they were approved by HP Industry Department) along with cash prizes (1st: Rs 1100; 2nd: Rs 750; 3rd Rs 500).

Due to the overwhelming responses, judges (Prof A.K. Bhatt & Dr. Ravi Kant Bhatia) shortlisted six ideas for 5 minutes presentation in front of the jury (BIC-HPU Committee) on 18th March 2021 at 3:00 pm through online mode (google meet) under the chairmanship of Hon'ble Vice Chancellor. Prof. A.K. Bhatt In-charge BIC-HPU welcomed all and briefed about the various activities and facilities available at BIC-HPU for the incubatees. Then, after affirmation from committee members, the shortlisted start-ups from Ideation Competition had started giving their presentation one by one. Committee members judged the ideas of the participants in a separate confidential meeting and also gave them required tips on how more improvement could be done in their idea. Before the end of the session, participants were asked to leave the meeting and after that a long discussion was held between committee members to decide the winners. The committee decided the three winners as follows:

- 1st Prize: Karishma- Advance Face MASK**
- 2nd Prize: Vani- Sustainable Packaging Material**
- 3rd Prize: Neha- Biodegradable Plastic**


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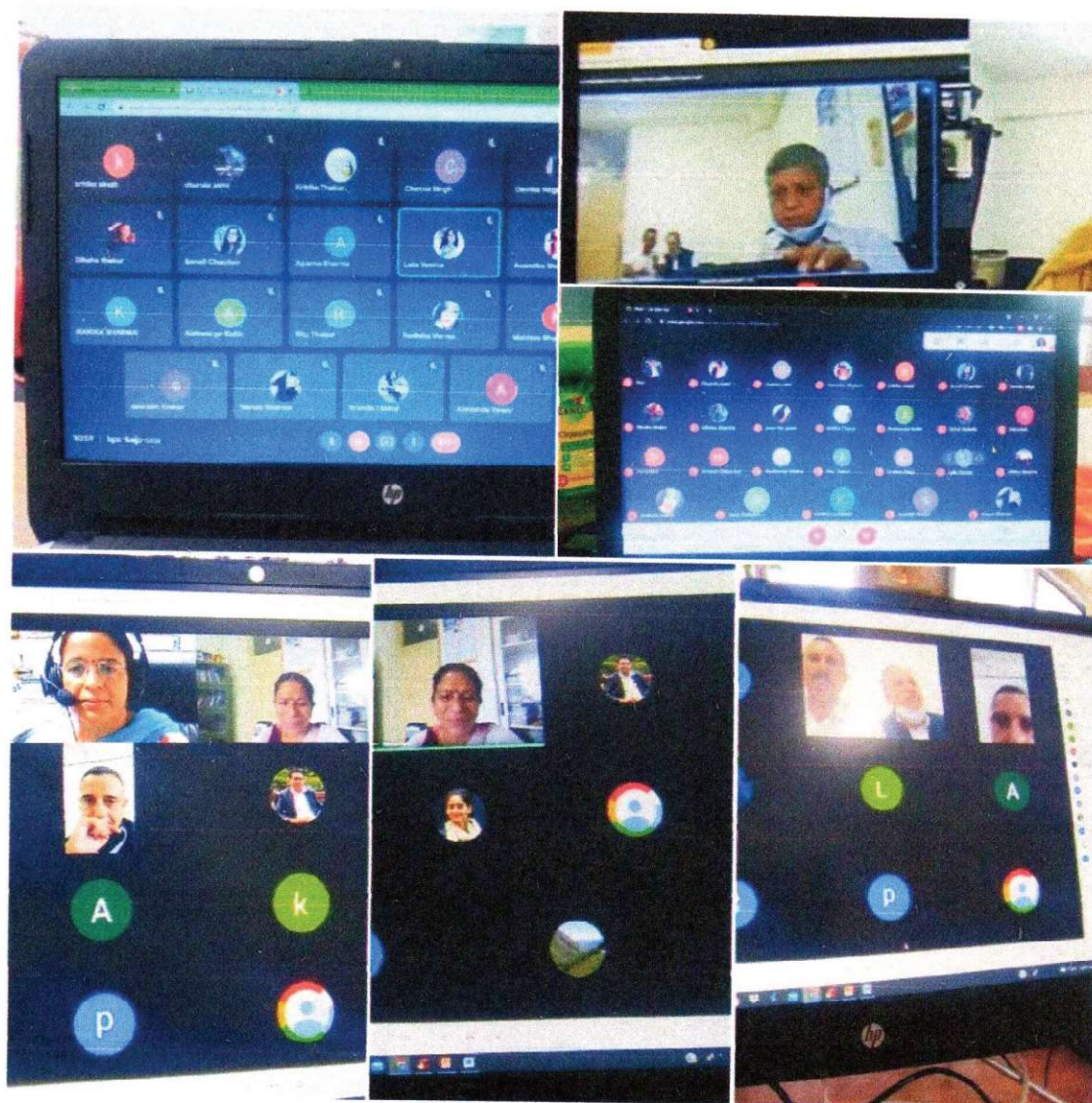
The following winners were later informed through mail and prizes were given through online mode later on. The event was concluded with vote of thanks given by Dr. Bhatia Manager BIC-HPU.

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Event Pictures




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