

# NEWSLETTER



APRIL -SEPTEMBER  
2020

UTTARAKHAND STATE COUNCIL FOR SCIENCE & TECHNOLOGY

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Hello everyone,

Welcome to our combined newsletter of April-June and July-September quarters.

This is the time of Covid-19 pandemic and every organization is working under restrictive conditions. In such prevailing conditions, I am happy that council has taken major initiatives to continue various programs of science popularization, patent information center, R&D, externally funded projects and Science City Dehradun. Council has developed "Demonstration and Training Mushroom's Unit" in its premises, which will cater the need of aspiring entrepreneurs in this field. We have formally started DBT-sponsored an ambitious Skill Vigyan project under DBT-State connect program, in which we are planning to provide skill development trainings covering 19 Qualification Packs (QPs) as specified by National Skill Development Corporation (NSDC), GoI. These 19 QPs covers 04 under certification of Life Sciences Sector Skill Development Council (LSSSDC) and 15 under certification of Healthcare Sector Skill Council (HSSC).

Among various other webinars, online meetings and activities, live streaming of Annular Solar Eclipse on 21<sup>st</sup> June, 2020 is worth mentioning. This remarkable celestial event was broadcast through our official Facebook page and YouTube channel. I am confident that Council will continue to work enthusiastically and creatively under pandemic condition.

Finally, I would like to extend my heartiest thanks for our collaborators and you all.

Stay safe and stay healthy.



EDITORIAL

(Dr Rajendra Dobhal)  
Director General

## COUNCIL ORGANIZED COVID-19 DEDICATED PROGRAMS DURING LOCKDOWN PERIOD

In view of various restrictions related to gathering/ meetings/ seminar and physical participation, the council planned to organize a series of events in e-mode. Council, therefore organized following e-events during lockdown period:

### UCOST ACTIVITIES

#### State Level **DIGITAL Essay** Competition on World Earth Day-2020

Council organized State Level DIGITAL Essay Competition on topic "*Growing Threats to Mother Earth in the Light of COVID-19: Possible Solutions*" for observance of World Earth Day-2020 under 03 categories based on age. The World Earth Day is organized every year on 22 April. The advertisement for the same was published on Council's website as well as circulated through other social media platforms among masses. Council received a total of 230 valid entries comprising 17 in Category 1 (Age over 45 Years); 36 in Category 2 (Age between 30-45 Years); and in Category 3 (Age

between 15-30 Years). These essays without authors name were given codes and sent to a panel of three independent evaluators: Dr Kshipra Mishra, Former Senior Scientist, Former Additional Director, DIPAS, DRDO Delhi; Dr Anita Pandey, Former Scientist G, GBPNIHE&SD, Almora; Prof DK Maheshwari, Emeritus Professor, Dept. of Biotechnology, Gurukul Kangri University, Haridwar. As a result, Dr Madhu Thapliyal, Dehradun secured first; Mr. Virender Gaur, Dehradun second; while Narendra Dutt Semwal, Chamoli and Neeru Bhatt, Bhimtal jointly secured

third position under Category-1. Under Category-2, Reena Gupta, Dehradun first; Mr Devender Singh Rawat, Dehradun second; while Arvind Singh, Dehradun stood third. In Category-3, Mayank Ravani, Dehradun and Mohammed Altamas, Roorkee jointly secured first; Pragya Kandpal, US Nagar second; while Pukhrambam Sunil Singh, Dehradun and Shreya Mahajan, Dehradun jointly secured third position. The winners in each category has been awarded with cash prize of Rs. 5000/-, Rs 3000/- and Rs 2000/- for I, II & III<sup>rd</sup> positions respectively with certificate.

#### State Level **DIGITAL SCIENCE POEM** Competition on World Biodiversity Day-2020

During lockdown period, Council organized State Level Digital Science Poem Competition on the topic "*Our Solutions are in Nature for Covid-19*" for observance of World Biodiversity Day-2020 under three categories of Hindi, English and Sanskrit. The World Biodiversity Day is organized every year on 22 May. The advertisement for the same was published on Council's website as well as circulated through other social media platforms among masses. As a result, a total of 42 poems in Hindi (26) and English (16) were received, while there were no

poem received in Sanskrit. These poems without author's name were given Codes, both in evaluation sheet and their pdf files to avoid any biasness during evaluation. The poems were evaluated by panel of three independent evaluators: Dr Deksha Bisht, Former Director, CSIR-NISIR, New Delhi; Dr Radhakant Anthwal, Consultant Editor Avishkar; and Dr Smita Vashishtha, Deputy Registrar, Dev Sanskriti Vishwavidyalaya, Haridwar. The result for the same was declared on 22 May, 2020. Following were the winners of State Level Digital

Science Poem Competition: Category-1 (Hindi Poem): (I) Dr Ashish Raturi, Dehradun and Meena Joshi, Dehradun; (II) Sarita Maindola, Kotdwar; and (III) Anurag Semwal, Kotdwar. Category-2 (English Poem): (I) Shefali Banga, Dehradun; (II) Sanchita Ghosh, Nainital; and (III) Simranjeet Kaur, Dehradun. Winners in each category were awarded with cash prize of Rs. 5000/-, Rs 3000/- and Rs 2000/- for I, II & III<sup>rd</sup> positions respectively with certificate.



## Director General UCOST addressed 3rd Felicitation Ceremony on **TEACHER'S DAY 2020**

Dr Rajendra Dobhal, Director General UCOST addressed a webinar on National Education Policy (NEP)-2020 and 3<sup>rd</sup> Felicitation Ceremony on Teacher's Day 2020 organized by Divya Himgiri, Dehradun. He spoke on the key points of NEP-2020 and seeding of science and innovation among the students. He explained the 5+3+3+4 education system various other provisions & plans of NEP-2020 and how it will be implemented. He said that there will be no rigid separations between Science, Arts and Commerce. Dr D.P. Uniyal, Joint Director, UCOST also addressed on the topic 'NEP-2020 and dimensions of future: National



and social prospective' and expressed his gratitude to all the teachers on auspicious occasion of Teachers day. This program was jointly supported by CSTT (MHRD, Govt. of India); UCOST; Uttarakhand Technical University; Sridev Suman University; Samagra Siksha (Department of Education); and Uttarakhand Board of Technical Education and organised by Divya Himgiri in Collaboration with Society for Research & Development in Science, Technology and Agriculture.

## Webinar on **“COVID 19 LOCKDOWN - COPING WITH STRESS”** organized

A webinar on “COVID 19 Lockdown – Coping with Stress” was organized in joint collaboration with UCOST and CSIR-IIP. Dr Harish Shetti, Psychiatrist, Mumbai; Dr Anjan Ray, Director, CSIR-IIP, Dehradun; Dr Umakant Panwar, former Principal Secretary, GoUK; Shri G S Rautela, Advisor, Science City, Dehradun were the panelist of webinar. Program was convened by Dr Rajendra Dobhal in which several issues like physical, mental, economical stress due to covid-19 were discussed. Experts suggested that we should spend more time on our hobbies, virtual visit of museum, science parks & planetariums, and Innovative activities to mitigate the stress due to Covid-19 lockdown. Dr Vijay Dhashmana, the Vice Chancellor of Swami Rama Himalayan University and Prof Naveen K. Navani, IIT Roorkee also shared their views on the occassion.



## National Webinar on “ISSUES AND SOLUTIONS FOR SAVING BIODIVERSITY IN HIMALAYAN REGION” organized



UCOST organized a National Webinar on “Issues and Solutions for Saving Biodiversity in Himalayan Region” on the occasion of World Environment Day on 5<sup>th</sup> June, 2020. Dr Ashutosh Mishra, Senior Scientific Officer, UCOST welcome all the speakers and participants on behalf of council and whole session was coordinated by Organizing Secretary of the webinar, Dr D.P.

Uniyal, Joint Director, UCOST. Dr Rajendra Dobhal, Director General, UCOST chalked-out current status of biodiversity in the state and invoked the young researcher for the innovative research of techno commercial potential. Prof A.N. Purohit, Former Vice Chancellor, H.N.B. Garhwal University gave his lecture on the topic “Evolution and Biodiversity”. Shri G.S. Rautela,

Former Director General, NCSM, Kolkata and presently the Consultant of Science City Dehradun told that we should prepare for Online Science Popularization in future under such prevailing Covid-19 pandemic. Keynote Speaker, Dr Mahesh Bhatt, President, Vigyan Bharti (VIBHA) Uttarakhand gave a lecture on Biodiversity and Human Health. He told about the spiritual health and enlightened on the One Health approach. The Last speaker of the session, Dr G.S. Rawat, Director, WII, Dehradun said that biodiversity is directly related to our livelihood and young researchers should work in this field. He also focus on Convention of Biological Diversity and Access & Benefit Sharing among local masses. In concluding remark, Dr Prashant Singh, District Coordinator, UCOST proposed a vote of thanks to all the speakers, participants and organizing team. There was a total of 1006 registration from 14 states of India for the webinar.



## UCOST and NASI Uttarakhand Chapter jointly organized a PLANTATION WEEK (HARELA WEEK)

The Council and National Academy of Sciences, India (NASI), Uttarakhand Chapter jointly organized a plantation week from 16<sup>th</sup> July to 23<sup>rd</sup> July, 2020 on the

occasion of Harela festival. In the inaugural of this plantation program Dr Rajendra Dobhal, Director General, UCOST told that the theme of this plantation is Fruiterers and

variety of fruit plants will be planted during this week. On this occasion, Prof R.C. Sundrayal, Head, Dept. of Forestry, HNB Garhwal Central University appreciate the initiative





taken by the council. Shri G.S. Rautela, Advisor, Science City said that everyone should adopt at least one tree for its conservation in the future. More than 300 Plants have been roped in the Vigyan Dham premises at Biodiversity Park during Harela week. Dr D.P. Uniyal, Dr Ashutosh Mishra, Shri Amit Pokhariyal, Dr Brijmohan Sharma along with UCOST and RSC staff were also present on this occasion.





## National Webinar on “ANNULAR SOLAR ECLIPSE 21 JUNE, 2020” organized



live streaming through its Facebook page and council's YouTube channel. Dr B.K. Tyagi, Scientist 'F', Vigyan Prasar told about the science of annular solar eclipse. He said that the objective of this program is to overcome the myths behind the solar eclipse scientifically. Dr Dipankar Banerjee, Director, ARIES, Nainital explained the science behind solar eclipse diagrams with the help of beautiful examples. Dr Arvind C. Ranade, Scientist, Vigyan Prasar explained 5 stages of an annular solar eclipse. He explained various activities on this special day such as making of Pinhole Camera and wall mirror to observe event safely and Calculation of magnitude of annular eclipse; Angular size of sun and moon using projection method; Measurement of Sun-Earth distance using projection method, and observational study of effect of solar eclipse on fauna. In the end, Dr D.P. Uniyal, Joint Director, UCOST, Dehradun proposed a vote of thanks. A total of 356 Participants attended the webinar.

National Webinar on “Annular Solar Eclipse 21 June, 2020” was jointly organized by UCOST Dehradun; Vigyan Prasar, DST, New Delhi and Aryabhata Research Institute of Observational Sciences (ARIES), Nainital on 15th June 2020. The annular phase of this solar eclipse is visible from parts of Africa including the Central African Republic, Congo, and Ethiopia; south of Pakistan and Northern India; and China. Dr Nidhi Srivastava, Project Scientist, Vigyan Prasar welcome the

experts and conducted the session. In the inaugural speech, Dr Rajendra Dobhal said that beside live streaming council will organise such programmes in larger scale Science Centre. Dr G.S. Rautela, former DG, NCSM and presently Advisor, Science City Dehradun told that science centers throughout the India organize programs on solar eclipse for the visitors with the help of exhibits in the museum and live too. RSC Dehradun will organize a program of this event on 21 June and

## Facebook live program on **SCIENTIFIC ISSUES OF COVID-19** by Director General, UCOST

Under initiatives of Divya Himigiri magazine, the Director General of UCOST Dr Rajendra Dobhal expressed his views on scientific and social issues of Covid-19 pandemic on Facebook Live platform on 11<sup>th</sup> May, 2020. He explained about SARS Cov-2 virus, Covid-19 pandemic, various initiatives to control it and R&D on vaccine and antiviral drugs. He also spoke on how to live life in prevailing conditions of the Covid-19 Pandemic. He invoked fellow citizens to maintain a social distancing, wear mask and avoid rumors during the pandemic.

**Dr. Rajendra Dobhal, FNASc**  
Renowned Scientist & Director General,  
Uttarakhand Council for Science & Technology, Govt. of UK  
Former Chairman & Managing Director,  
National Research Development Corporation, Govt. of India

On **How to live your life through the COVID-19 epidemic**

DATE: 11<sup>th</sup> May, 2020 TIME: 1.30 PM

[www.facebook.com/DivyaHimgiri](https://www.facebook.com/DivyaHimgiri)

Ask your questions in the comments box below



## Webinar on “CHALLENGES IN SCREENING FOR GENETIC DISORDERS IN INDIA” organized



UCOST in collaboration with Genomics and Public (GAP) Health Foundation organized a webinar on “Challenges in Screening for Genetic Disorders in India” on 21<sup>st</sup> September, 2020. Three separate

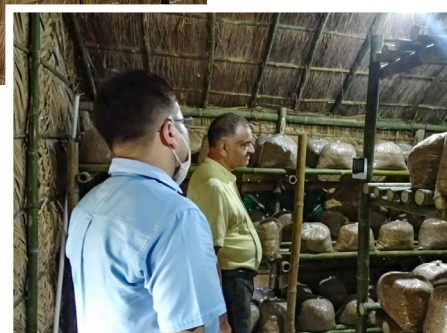
sessions were organized during webinar: 1. Experiences from the ground - ongoing screening programmes in States; 2. Tools and Technologies for Genetic Screening and Role of Tertiary Centres; and 3.

Community Genetics, Rare Diseases and Precision Medicine. In his introductory remarks, Dr Rajendra Dobhal, DG-UCOST spoke about importance of screening for genetic disorders and need for the experts from educational and research institutions and other organizations to support state governments in developing and implementing programmes on genetic disorders. This webinar brought together scientists and doctors from different states having an ongoing screening programs and institutions serving or having the potential to serve as tertiary care centres along with guest speakers to talk on rare diseases and precision medicine.

## EXTERNALLY FUNDED PROJECTS

### Pt. Deen Dayal Upadhyay Vigyan Gram Sankul Pariyojana

UCOST has set up a “Demonstration and Training Mushroom’s Unit” at its premises in Vigyan Dham, Dehradun. Under this Bamboo racks have been developed for the installation of mushroom bags. Initially 350 bags of oyster mushroom have been placed under this hut. This mushroom unit will be used for demonstration and training on mushroom cultivation and its techniques in future.







Fruit plant saplings were provided and planted at Kausani cluster under fruit cultivation unit. Quality plant saplings were purchased from “National Bureau of Plant Genetic Resources (ICAR), Bhowali, Nainital”.

A total of 500 Malta, 200 Orange, 200 Kagzi lemon and 100 Big lemon plant saplings were distributed to farmers and planted at the cluster. Earlier 5 mushroom cultivation units were established at Bhigun cluster

(Tehri) and now 10 more mushroom cultivation units have been developed at the cluster. Total 1500 bags of oyster mushroom have been installed at the cluster’s units.

Training on mushroom cultivation and its techniques was organised at Bhigun cluster (Tehri) from 16<sup>th</sup> to 21<sup>st</sup> September 2020. Mr. Arjun Kumar, HOD-Mushroom, Integral Livelihood & Social Entrepreneurship Foundation (ILSEF) along with his team provided training to the farmers. Co-operative Society members were also present during the training programme.



## Four Day long webinar series on **INTELLECTUAL PROPERTY RIGHTS (IPR)** organized

Council organized a four day webinar series (from 08-11<sup>th</sup> Sept-2020) entitled “Intellectual Property Rights: Fundamental and its importance in present context” in joint collaboration with Technology Information, Forecasting and Assessment Council (TIFAC), Government of India and National Academy of Sciences India (NASI)

Uttarakhand Chapter. Dr Rajendra Dobhal, Director General, UCOST narrated about the programs and highlighted the priority areas of the state for Science Technology and Innovation Policy-2020. In his address, Dr Yashwant Dev Panwar, Director, PFC, TIFAC gave detailed information on the innovation and technology transfer in India and its

**INTELLECTUAL  
PROPERTY &  
PATENT  
INFORMATION  
CENTER (PIC)**





technical aspect under current period of covid-19. The distinguished guest Mr R. Saha gave his address on the topic “Relevant economic, technical and educational importance of IPR”. On the second, third and fourth day, various eminent experts of IPR field, Dr. Sangeeta Nagar, Scientist-F, TIFAC; Prof T. Ramakrishnan, NLSIU Bengaluru; Dr Gargi Chakrabarti, NLU Jodhpur; Ms. Poonam Raghuvanshi, Vice President and Head Human Relations Dr. Reddy’s Laboratories, Gurgaon and Dr T.C. James were the key resource persons of the program. Dr Dobhal delivered vote of thanks to all the guests, lead speakers and participants in the valedictory session on fourth



**WEBINAR SERIES ON**  
**Intellectual Property Rights: Fundamentals and its importance in Present Context**  
**8<sup>th</sup> to 11<sup>th</sup> Sep 2020 11:00 AM to 01:00 PM**

**INAUGURAL SESSION ( 8<sup>TH</sup> SEPT 2020 )**

**DR. YASHWANT PANWAR**  
Scientist F and Director PIC, TIFAC

**DR. RAJENDRA DOBHAL**  
Director General, UCOST

**DR. PRADEEP SRIVASTAVA**  
Executive Director, TIFAC

**DR. R. SAHA**  
Advisor Global Institute of Intellectual Property & Senior Advisor, CI

**9<sup>TH</sup> - 11<sup>TH</sup> SEP SESSIONS WILL START FROM 11:00 AM TO 01:00 PM**  
Streaming will also be done through facebook and youtube live

**INTELLECTUAL PROPERTY**

**Registration is Mandatory & Free**

**FOR REGISTRATION CLICK ON**  
<https://forms.gle/NXkYTqH5B4Es4Go8>

**Zoom link for attending meeting**  
<https://zoom.us/j/9796157043?pwd=ZnFwNkVWT0d0eTlVZjZlZWw4c0pZa209>  
OR  
**Meeting ID: 9796157043**  
**Passcode: 12345**

E-Certificate is provided to only registered participants who have attended all four days session

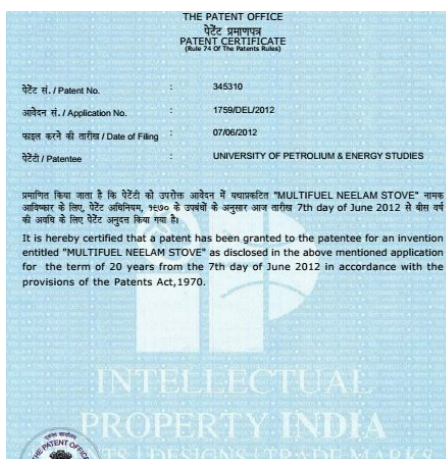
**Session Moderator: Dr D.P Uniyal, Joint Director, UCOST**  
**Contact us : 7906341484 / 7500582048**  
**pic.ucost@gmail.com**

day. The program was conducted and coordinated by Dr D.P Uniyal, Joint Director UCOST. Around 550 participants registered and participated in this four day webinar on IPR.



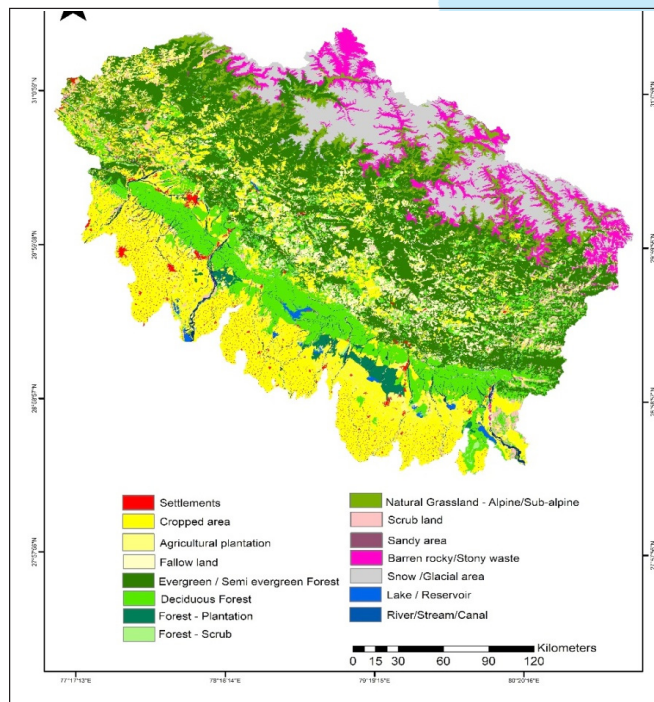
## UCOST funded “MULTI-FUEL COOKING NEELAM CHULHA” Granted Indian Patent

The PIC, UCOST Dehradun successfully facilitated the process of getting Indian patent for innovation “Multi-fuel Neelam Chulha” of University of Petroleum and Energy Studies (UPES), Dehradun. Dr Rajendra Dobhal, Director General, UCOST congratulated UPES, Dehradun for obtaining Indian patent number 345310 entitled “Multi-fuel Neelam Chulha”. Earlier the PIC extended its technical assistance for prior art search and novelty assessment. The project “Multi-fuel Neelam Chulha” was financially supported by UCOST and later PIC facilitated the filing for Indian patent in 2012 with the help of TIFAC, New Delhi. This innovation solves the problem of interrupted availability of gas and inflation in inaccessible hilly terrain. The biggest feature of the stove is its capability of operating both on conventional and renewable energy sources available in rural and urban area.



## Successful completion of **WATER TECHNOLOGY INITIATIVES (WTI)** Programme

The council has successfully implemented WTI programme of DST, Govt of India, New Delhi. The project "Modeling for Enhancing Water Quality in Uttarakhand Using Geospatial Technology" under WTI programme was initiated in the state in the year 2013. It was executed by council in joint collaboration with TERI School of Advance Studies, New Delhi and D.A.V. (P G) College Dehradun. It was mentored by the Dr. Rajendra Dobhal, Director General, UCOST and principally investigated by Dr. D. P. UNIYAL, Joint Director, UCOST along with Dr. Vinay Shankar Prasad Sinha, Assistant Professor, Department of Natural Resources, TERI School of Advance Studies and Dr. Prashant Singh, Associate Professor, Department of Chemistry, D.A.V (PG) College, Dehradun. The objective of the study was to understand surface and groundwater resource potential in respect to aquifers through Geospatial techniques and water quality modeling & monitoring help in providing potable surface and ground waters to the citizens. The study was successfully completed in September-2020. The outcome of the project will be helpful to the academicians and policy planner for implementing water related policy in the state.



## **DBT SKILL VIGYAN** State-Partnership program started

The Council as a nodal agency, in collaboration with five training institutions in the state is implementing Skill Vigyan project in Biotechnology funded by Department of Biotechnology (DBT), GoI under its State-partnership program. These training institutions include Kumaun University, HNB

Garhwal (Central) University, G.B. Pant 'National Institute of Himalayan Environment' (NIHE), GB Pant University of Agriculture & Technology, and AIIMS Rishikesh. The objective of Skill Development Program is to make the young technicians and biotechnologist ready to take-up jobs in Industries,

Hospitals, Medical Colleges, R&D and Diagnostic Laboratories.

Training Partners institutions in Uttarakhand will organize these 3-6 months trainings for a total of 19 QPs in coordination with UCOST as nodal agency and under certification of LSSSDC & HSSC.

## Summary of trainings under certification of Life Sciences Sector Skill Development Council (LSSSDC):

Institution Name and Address with NODAL Officer details	Approved Program Name	Qualification Pack (QP) Code	Eligibility
<b>Dr Gopal K. Joshi</b> Dept. of Zoology & Biotechnology, HNB Garhwal (Central) University, Srinagar-Garhwal-246174	Quality Control (Microbiology)	LFS/Q0308	B.Sc. with Biology / Biotechnology/ Microbiology/ Life Science
<b>Prof Veena Pandey</b> Dept. of Biotechnology, Kumaun University, Bhimtal Campus, Bhimtal- 263136, Nainital	Quality Control (Microbiology)	LFS/Q0308	- Do -
<b>Prof Sandeep Arora</b> Department of Molecular Biology & Genetic Engineering GB Pant University of Agriculture & Technology, Pantnagar- 263145, US Nagar	Mushroom Cultivation & production of value added products for Nutritional security	NA	- Do -
<b>Dr Indra D. Bhatt</b> Centre Head, Centre For Biodiversity Conservation and Management G.B. Pant 'National Institute of Himalayan Environment', Kosi-Katarmal- 263643, Almora	Technician development program for entry level jobs in technical cadre	LFS/Q0509	- Do -





## Summary of trainings under certification of Healthcare Sector Skill Council (HSSC):

Institution Name and Address with NODAL Officer details	Approved Program Name	Qualification Pack (QP) Code	Eligibility
<b>Prof Shalinee Rao</b> Dept. of Pathology, All India Institute of Medical Sciences (AIIMS), Rishikesh	Pharmacy Assistant	HSS/Q5401	12 <sup>th</sup> pass with Biology
	Assistant Physiotherapist	HSS/Q7701	
	Emergency Medical Technician Basic	HSS/Q2301	
	Phlebotomy Technician	HSS/Q0501	
	Dental Assistant	HSS/Q2401	
	X-Ray Technician	HSS/Q0701	
	Operating theatre Technician	HSS/Q2601	
	Blood Bank Technician	HSS/Q2801	
	Refractionist	HSS/Q3002	
	Histotechnician	HSS/Q0401	
	Anaesthesia Technician	HSS/Q2501	
	Cardiac Care Technician	HSS/Q0101	
	Medical Lab Technician	HSS/Q0301	
	Dialysis Technician	HSS/Q2701	
	Radiology Technician	HSS/Q0201	

## LIVE BROADCAST OF ANNULAR SOLAR ECLIPSE organized on 21<sup>st</sup> June, 2020

India witnessed Annular Solar Eclipse on 21st June, 2020. A live streaming of this remarkable celestial event was conducted through Facebook page and YouTube channel of UCOST and RSC Dehradun. The solar eclipse was started from 10:15 AM and full eclipse occurred on 12:07 PM. The whole event was projected on the screen using telescope and pinhole camera and then telecast. Shri G.S. Rautela, Former DG, NCSM and presently the Advisor of Science City Dehradun explained the whole live session beautifully. Shri Ravinath Raman, IAS, Commissioner, Garhwal Region was also present to witness the historical event with his family. He appreciated the efforts of UCOST

and RSC Dehradun to showcase the entire event by different telescopic and pin-hole methods. This solar eclipse was historic as it was first in this century. After this the full solar eclipse will only occur in Indian in year 2034, 2064, 2085. Staff of the UCOST and RSC along with media persons were present during this program.

**REGIONAL  
SCIENCE CENTRE  
(RSC)  
DEHRADUN**

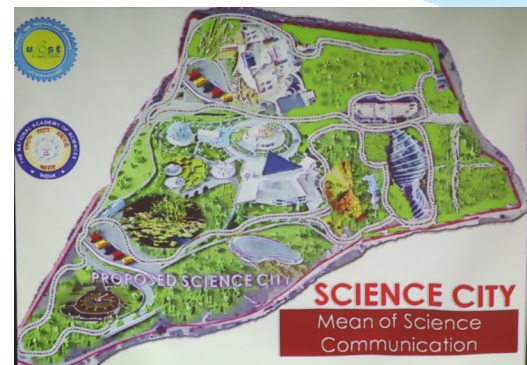


## A Lecture on “SCIENCE CITY DEHRADUN AND ITS PLANNING” held at Vigyan Dham



Council organized a session of deliberations on the progress in the project Science City Dehradun in its premises Vigyan Dham on 19th June, 2020. The Keynote Speaker, Shri G.S. Rautela, Former DG, NCSM and presently Advisor of Science City Dehradun gave a presentation on “Science City & Its Planning”. He put a broad roadmap of science city that how it will look like and what will be its resources as proposed in the approved DPR. He said that the Science City will harbour immersive exhibits with state-of-the-art technology and engaging activities on

Edu-tainment, Infotainment and Edu-Tourism. He told that we can also include a Miniature of Uttarakhand, Nature Trail, Energy Park, Eco Park and Butterfly Garden in the Outer part of Science City. He said that 4 Science Cities, Kolkata, Ahmadabad, Kapurthala & Lucknow are functioning in the Country and other 2 are in progress, one is at Dehradun and other at Guwahati. He asked council's staff for suggesting ideas for the futuristic science city. Dr Rajendra Dobhal, Director General, UCOST proposed an idea of incubation centre for Innovators and Researchers in the Science City. Others council's staff also shared their views on Science City. Above lecture on Science city is jointly organized by UCOST & NASI UK Chapter. Dr D.P. Uniyal, Joint Director, UCOST proposed a vote of thanks.



### HR News & Publications

**Dr Rajendra Dobhal**, Director General, UCOST inaugurated the Annual Research Conference 2020-21 of Zoological Survey of India (GoI), Dehradun on 9<sup>th</sup> July, 2020 through web.

**Dr Rajendra Dobhal**, Director General UCOST, Dehradun addressed a 1 week's workshop on “Writing Research Papers

& Grant Proposals: Scientific, Technical, and Ethical Practices & Conduct” organized by NIT Srinagar, Uttarakhand from 24<sup>th</sup> Aug, 2020 through web.

**Dr D.P. Uniyal**, Joint Director UCOST delivered a lecture on Role of Indigenous Food in Health & Disease a webinar organized by AIIMS Rishikesh during 1<sup>st</sup> Sept, 2020.

**Dr D.P. Uniyal**, Joint Director UCOST delivered a lecture on ‘Scientific Paper & Project Writing’ at SGRR PG College, Dehradun on 8<sup>th</sup> Aug, 2020.

**Dr D.P. Uniyal**, Joint Director UCOST delivered a lecture on ‘water quality and related issues’ through web on 30<sup>th</sup> Aug, 2020 organized by Chinmayananad Degree College, Uttarakhashi.

**Dr Piyush Joshi**, Senior Scientific Officer, UCOST visited as an external expert/ examiner to conduct practical exam and viva-voce for B.Sc. Hons. (IV Semester) Microbiology/ Biotechnology students of Swami Rama Himalayan University (SRHU), Jolly Grant, Doiwala, Dehradun, held on 31<sup>st</sup> July 2020.

**Dr Piyush Joshi**, Senior Scientific Officer, UCOST, attended meeting for Environment conservation and Climate Change, chaired by Shri Anand Vardhan, Principal Secretary, Govt. of Uttarakhand on 09<sup>th</sup> September 2020 at Uttarakhand Secretariat, Dehradun.

<b>Editor-in-chief</b>	<b>Dr Rajendra Dobhal</b> Director General
<b>Editor:</b>	<b>Dr Kailash N. Bhardwaj</b> Scientific Officer (I/C) <b>Mr Manoj Kumar Singh</b> Scientific Assistant
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