

## Chinyalisaur Town

Chinyalisaur, the land of local deity Nagaraja, is a small town and the gateway to the Uttarkashi district. The picturesque town of Chinyalisaur is situated on the bank of river Bhagirathi and is covered by mountains. The town is passed through by pilgrims travelling to Gangotri Dham. Places like the Arch Bridge, Shri Krishna Trilokhi Nath Nagaraja Mandir, Balaji Mandir Dharashu, Ganga Beach, and Trek To Nagaraja Dhar are worth visiting. Due to its close proximity to the Indo-China border, the town is of great importance for Indian Defence as the airstrip located in the town functions as an airbase for Indian Air Force.

## About the College

Rajkiya Mahavidyalaya Chinyalisaur is one of the pioneer institute of higher education in Uttarkashi district. The college was established in 2001 and is affiliated to Sri Dev Suman Uttarakhand University, Badshahithaul, Tehri Garhwal. It seeks to provide new opportunity for quality education to enable the development of responsible and free thinking citizens of twenty first century.

## How to reach Chinyalisaur

Chinyalisaur is well connected by road from major cities like Dehradun (107.8 Km), Rishikesh (136.7 Km) and Uttarkashi (34 Km). UTC and Vishwanath bus services are available from these cities to Chinyalisaur. It is also connected to Dehradun by Heli Services.



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# NATIONAL CONFERENCE ON EMPOWERING INNOVATIVE SCIENCE & TECHNOLOGY FOR INDIGENOUS DEVELOPMENT OF UTTARAKHAND : DIMENSIONS AND CHALLENGES

**MARCH, 2 2023**

sponsored by



# UCOST



ORGANIZED BY  
**FACULTY OF SCIENCE  
RAJKIYA MAHAVIDYALAYA  
CHINYALISOUR  
UTTARAKASHI, UTTARAKHAND-249196**

## Theme

**"Empowering Innovative Science and Technology for Indigenous Development of Uttarakhand: Dimensions and Challenges"**

Science and technology (S&T) is widely recognized as an important tool for fostering and strengthening the economic and social development of the country. Harnessing of indigenous technologies with innovations, and creating a rural-based economy with the support of technology and innovation at the local level will boost the national economy and make the country self-reliant. Uttarakhand is a region of India which is home to a wide variety of indigenous knowledge and technologies. It is also an abode of beautiful landscapes and a rich and diverse culture with a population of over 11 million people. The region is inhabited by a large number of indigenous communities, such as Kumaoni, Garhwali, and Jaunsari who have been practicing their traditional ways of living for centuries. This includes agriculture and food security technologies, water harvesting, renewable energy, healthcare, and education. The challenge for these communities is not only to preserve their culture and heritage but also to find new opportunities for sustainable economic development. The focus of IST has been to improve the lives of rural dwellers by creating jobs and entrepreneurship opportunities in new areas such as renewable energy, biotechnology, nanotechnology, IT, and telecommunications.

Also, there is a need of complementing traditional technologies and manpower with new-age innovative technology to solve the specific issues of the state and creating a skilled workforce. Harnessing the full range of technologies (traditional, conventional, and modern) would go a long way in national development.

## Sub Themes

- **New Frontiers in Science And Technology**
- **Role of S&T and Innovation in Achieving Sustainable Development Goals**
- **Conceptual Framework for Empowering Innovative Science and Technology for Indigenous Development of Uttarakhand.**
- **Integration of Technology and Innovation for Conservation of Energy and Natural Resources in Uttarakhand**
- **Sustainable Agriculture and Bio-Farming**
- **Disaster Management and Landslide Control**
- **Rural Engineering and Technology Support Services**
- **Water Resource Management and Wastewater Treatment**
- **Role of Science And Technology in Mitigating Climate Change**
- **Role of S&T in the Socio-Economic Development of Uttarakhand**

- **Environmental Protection and Management**
- **Green Chemistry and Nanotechnology**
- **Establishing an Ecosystem for Innovation in the State by Creating and Enabling an Environment through Policy, Legislation, and a Skilled Workforce**
- **Other Relevant Issues Related to the Broad Theme of the Conference**

## Call for papers

Abstracts not exceeding 250 words are invited for oral/poster presentations in the technical sessions of the conference. An abstract typed in 'Times New Roman'/'Kruti Dev 10', in MS word (File extension .docx), Font Size 12, line Spacing 1.0 in black color should be submitted to the Convener via email: principal.gdcci@gmail.com latest by February 15, 2023. Title, name of the author(s) with an asterisk (\*) mark against the name of presenting author, email address for communication, the affiliation of the author(s), consideration as ORAL or POSTER presentation, etc. must be mentioned in the abstract.

Every person intending to participate in the conference has to register through the following online link and upload the fee receipt:

<https://forms.gle/1CqAK5GJb5PaiC79>

## Registration Fees

Delegates/Academicians/Faculty: Rs. 1000/-

Research Scholars: Rs. 500/-

Students: Rs. 300/-

## Mode of Payment

The Participants and delegates must submit the fee via online payment mode to the following account:

Account Holder Name: **PRACHARYA RAJKIYA MAHAVIDYALAYA**

Bank Name: Punjab National Bank, Chinyalisaur

A/c No. : 6410000100133704

IFSC Code: PUNB0641000

\*For on-spot registration, only cash payment will be accepted.

## Accommodation

Participants are expected to meet the expenses for accommodation on their own.

## Important dates

Last date for submission of Abstract: February 15, 2023  
Intimation of Acceptance of Abstract: February 25, 2023  
Last date for online Registration (with Fee): February 28, 2023

## Advisory Committee:

Prof. P.K. Pathak, (Former Director, Deptt. of Higher Education, Uttarakhand)  
Prof. G.S. Rajwar (Visiting Professor, Himalayiya University, Dehradun & Former Principal)  
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Dr. Akash Chandra Mishra (Deptt. of Zoology, R.C.U. PG College, Uttarkashi)  
Dr. Kamal Kumar Bisht (HOD, Deptt. of Chemistry, R.C.U. PG College, Uttarkashi)  
Dr. M.P.S Parmar (HOD, Deptt. Of Botany, R.C.U. PG College, Uttarkashi)  
Dr. M.P. Tiwari (Deptt. of Chemistry, R.C.U. PG College, Uttarkashi)  
Dr. Shakun Rajput (Deptt. of Chemistry, Govt. Degree College, Bhupatwala, Haridwar)  
Dr. Harish Chandra Joshi (Deptt. of Chemistry, Graphic Era University, Dehradun).  
Dr. Anchala Nautiyal (Deptt. of Zoology, Govt. Degree College, Thatyur)



# Uttarakhand State Council for Science & Technology (UCOST)

Department of Information and Science Technology (Govt. of Uttarakhand)

Vigyan Dham, Chakrata Road, PO-Jhajra, via Shuddowala, Dehradun-248015 [UK]

(Tel: +91-0135-2976266, Email: scp.ucost@gmail.com Website: www.ucost.in)

File No. UCS&T/PRC/SCP-51/2022-23/ 219801

Dated: 19/12/2022

## ORDER

Approval of Competent Authority is hereby conveyed to sanction Rs.50,000/- (Rs. Fifty Thousand only) and release Rs. 40,000/- (Rs. Forty Thousand only) in favor of "Pracharya Rajkiya Mahavidyalaya" through online transfer for organizing National Conference on Empowering Innovative Science and Technology for Indigenous Development of Uttarakhand: Dimensions and Challenges in the following account heads:-

Sl. No.	Account Head	Amount sanctioned (in Rs)	Account Details
1	TA/DA	20,000.00	Bank Name: Punjab National Bank Branch Name: Chinayalisaur, Uttarkashi A/C Name: Pracharya Rajkiya Mahavidyalaya A/C No. 6410000100133704 IFSC Code: PUNB0641000 PAN No. AAAGR1953A Mob. No. 9411384782
2	Pre-Conference Printing	15,000.00	
3	Stationary	5,000.00	
4	Miscellaneous	10,000.00	
	<b>TOTAL</b>	<b>50,000.00</b>	

Above grant is subject to the following terms and conditions:-

1. The amount will be used by the Institution only for the purpose it has been sanctioned. The money would not be diverted for any other purpose under any circumstance; even for temporary periods.
  2. The institute would highlight the Financial Support and role of UCOST Dehradun by giving due acknowledgment at all the forums, publications, pamphlets, banners, and proceedings.
  3. Detailed Program Report (Executive Summary consisting area/district/block/village covered, total no. of beneficiaries (male & Female) Background, Minute to Minute Program, Colored Photographs, Press Clippings/Media Coverage, List of Participants & Experts and Recommendations/Outcomes of the program) with Publication of Proceedings in both Hard & Soft Copy in pen drive or CD and Audited UC & SOE in council format would be sent through Head of the Institution in 3 copies of each within 45 Days of completion of the program.
  4. The accounts will be audited according to the procedure of the host institution. Audited Utilization Certificate (UC) and Statement of Expenditure (SoE) duly signed by competent authority would be submitted to UCOST after completion of event/financial Year. In case of Private Institutions /Universities/NGOs, Audited documents must be mandatorily counter signed by Chartered Accountant (CA). Head of the organization will be responsible for submitting the Audited Statement of Expenditure and Utilization Certificate in the prescribed format of Council (Available on our website <http://ucost.in>).
- Assets acquired wholly or partially through grant shall not be disposed-off without obtaining prior approval of UCOST.
5. Advance intimation should be sent to the Council so that representation from Council could be sent for the program and necessary mention of the Uttarakhand State Council for Science & Technology should be made in all circulars/banners, invitations and proceedings.
  6. Unspent balance, if any, from the sanctioned grant would be returned to UCOST through bank draft in favor of "The Director General, Uttarakhand State Council for Science and Technology (UCOST)" payable at Dehradun as earliest as possible.
  7. The account of the programme shall be open to inspection by sanctioning authority/audit whenever the institution is called upon to do so.
  8. It will be the responsibility of the concerned institution that relevant rules and regulations/instructions are strictly followed and proper attention of thrift is kept while using the fund. Savings, if any, out of the sanctioned funds will be

Photographs





# राज्य के विकास को स्वदेशी, वैज्ञानिक अनुसंधान जरूरी

राष्ट्रीय सम्मेलन में विकास पर हुआ मंथन

संवाद न्यूज एजेंसी

चिन्त्यालीसौड़। राजकीय महाविद्यालय चिन्त्यालीसौड़ में 'उत्तराखंड के विकास के लिए नवीन विज्ञान और प्रौद्योगिकी को सशक्त बनाने' विषय पर एक दिवसीय राष्ट्रीय सम्मेलन हुआ। सम्मेलन में उत्तराखंड के सतत विकास के लिए स्वदेशी ज्ञान और आधुनिक वैज्ञानिक अनुसंधान के एकीकरण पर जोर दिया गया।

उत्तराखंड राज्य विज्ञान एवं प्रौद्योगिकी परिषद् के सहयोग से विज्ञान संकाय की ओर से आयोजित राष्ट्रीय सम्मेलन का उद्घाटन संयुक्त निदेशक उच्च शिक्षा प्रोफेसर आनंद उनियाल, कमांड महाविद्यालय की प्राचार्य प्रो. गौरी सेवक, प्रोफेसर योगेश शर्मा, प्रोफेसर मधु थपलियाल व प्राचार्य प्रोफेसर प्रभात द्विवेदी ने किया।

संयुक्त निदेशक उच्च शिक्षा प्रोफेसर उनियाल ने कहा कि राज्य में स्वदेशी समुदायों के उत्थान के लिए अभिनव समाधानों के कार्यान्वयन के लिए शिक्षा, उद्योग और सरकार के बीच सहयोगात्मक प्रयासों के बारे में जानकारी दी।

राजकीय महाविद्यालय चिन्त्यालीसौड़ में हुआ कार्यक्रम का आयोजन

प्रोफेसर गौरी सेवक ने कहा कि जलवायु परिवर्तन से स्थानीय उत्पाद पर भी प्रभाव पड़ता है। पिरुल के जलने से पर्यावरण को नुकसान होता है। प्रोफेसर योगेश शर्मा ने कहा कि आज तकनीकी ने काफी विकास कर लिया है। मुख्य वक्ता प्रोफेसर मधु थपलियाल ने उत्तराखंड के सतत विकास के लिए स्वदेशी ज्ञान के महत्व और आधुनिक वैज्ञानिक अनुसंधान के साथ इसके एकीकरण को जरूरी बताया।

डॉ. योगेश शर्मा, डॉ. सीमा बेनीवाल, डॉ. हरीश जोशी, प्राचार्य प्रोफेसर प्रभात द्विवेदी ने कहा कि सम्मेलन का उद्देश्य उत्तराखंड के विकास के लिए चुनौतियों और अवसरों पर विचार-विमर्श करने के लिए विशेषज्ञों, शिक्षाविदों, शोधकर्ताओं और नीति निर्माताओं के लिए एक मंच प्रदान करना था। इस मौके पर डा. रजनी लस्याल, बृजेश चौहान आदि रहे।



National Conference

on

**Empowering Innovative Science and Technology  
for Indigenous Development of Uttarakhand:  
Dimensions and Challenges**

March 02, 2023

**Conference Report**

*Sponsored by*



*Organized by*

**Faculty of Science**

**Rajkiya Mahavidyalaya Chinyalisaur, Uttarkashi**

**Uttarakhand-249196**

राजकीय महाविद्यालय  
चिन्वालीसौड़, उत्तरकाशी

A Report  
On  
National Conference  
**“Empowering Innovative Science and Technology for Indigenous Development of  
Uttarakhand: Dimensions and Challenges”**

(March 02, 2023)

Organized by

Faculty of Science, Rajkiya Mahavidyalaya Chinyalisaur, Uttarkashi, Uttarakhand

One day National Conference on **“Empowering Innovative Science and Technology for Indigenous Development of Uttarakhand: Dimensions and Challenges”** sponsored by UCOST was successfully organized by the Faculty of Science, Rajkiya Mahavidyalaya Chinyalisaur, Uttarkashi on **02 March 2023**. The presence of dignitaries, an impressive lineup of scholars, the support of UCOST and media partners, an array of carefully selected, well-researched and well-presented papers on the theme, all came together to admirably conclude this huge endeavour.

The conference comprised an inaugural session including a keynote address, 02 technical sessions including 06 invited lectures, parallel online/offline oral presentations, poster presentations and a valedictory session. 152 participants attended the conference through offline/online mode representing different fields of science, commerce and humanities. All the participants interacted with each other, enjoyed the lectures, technical sessions as well as the beautiful campus.

### **Inaugural Session**

The conference was inaugurated by Chief Guest, Prof. Anand Singh Uniyal, Joint Director, Department of Higher Education Uttarakhand, Guest of Honour, Prof. Yogesh Kumar Sharma, Head of Department Physics, Pt. L.M.S. SDSUV Campus Rishikesh, Guest of Honour, Prof. Gauri Sewak, Principal Rajkiya Mahavidyalaya Kamand, Tehri Garhwal and Keynote Speaker, Prof. Madhu Thapliyal, Head, Department Zoology, R.C.U. Government PG College, Uttarkashi by lighting the lamp. Various eminent scientists, Prof. Sanjay Kumar, Prof. Rajkumar Singh, Dr. Pankaj Nautiyal, Dr. Dharendra Singh and others from various colleges/universities and institutes graced the event with their presence.

Prof. Prabhat Dwivedi, Principal Rajkiya Mahavidyalaya Chinyalisaur welcomed all the guests, speakers, and participants from different parts of the country to the conference. He briefly introduced the chief guest and guests of honour to the audience. He also expressed his gratitude to UCOST for sponsoring the conference. He wished all participants a fruitful conference and emphasized impact of this event taking place at Rajkiya Mahavidyalaya Chinyalisaur. Organizing Secretary, Mr. Brijesh Chauhan introduced the theme of the conference to the audience in a lucid manner which was followed by the release of Souvenir by dignitaries.




Prof. Madhu Thapliyal delivered her keynote address on '**Developing Economic Zone through Technology Input and Value Addition and Valorization of Waste Generated during Local Tradition Produce in Uttarkashi District**'. She highlighted how innovative technology can be useful in solving various issues in the context of Uttarakhand. Her address included her work on 'Gajna' Tumeric with high curcumin content which was developed using the input of technology in Uttarkashi district and helped in improving the socio-economic conditions at local level. She also focussed on initiatives like Atamnirbhar Bharat, Vocal for local, Unnat Bharat Abhiyaan etc. which can be aligned to provide self-help in rural hilly areas.

Prof. Gauri Sewak and Prof. Yogesh Kumar Sharma stimulated the audience with their very influential speech. They explained the theme of the conference with scientific facts and examples in a very interesting manner and how diverse areas of science and technology can be used to improve the lives of rural dwellers. Prof. Anand Singh Uniyal emphasized on the role of science and technology in generating employment and entrepreneurship opportunities in new areas like renewable energies, biotechnology and nanotechnology in Uttarakhand.

### Technical Sessions

The conference was divided into two technical sessions. In each session, the presentations were carried out simultaneously in two different conference halls. The first session in conference hall 1 was chaired by Dr. Pankaj Nautiyal, Scientist 'B', Krishi Vigyan Kendra, Chinyalisaur. The session comprised 01 Invited Lecture by Prof. Yogesh Sharma on 'Spectral Characterization of Nanomaterial with Rare Earth Ions and their Applications', 16 Oral Presentations and 09 online presentations. A Parallel session conducted in conference hall 2 was chaired by Prof. Sanjay Kumar, Principal, Government Degree College, Haldwani Shahar. The session also included 01 invited lecture by Prof. Rajkumar Singh, Head Department of Zoology, Lal Bhadur Shastri Govt. PG College, Halduchaur on 'Butterflies and their contribution in Ecosystem', 17 oral presentations and 08 online presentations.

The second session was chaired by Prof. Yogesh Kumar Sharma and Prof. Rajkumar Singh in conference hall 1 and conference hall 2 respectively. 02 invited talks by Dr. Seema Baniwal, Associate Professor, Department of Chemistry, Pt. L.M.S. SDSUV Campus Rishikesh and Dr. Harish Chandra Joshi, Assistant Professor, Department of Chemistry, Graphic Era Deemed to be University, Dehradun on 'Study of Improved Water Quality Observation during Covid-19 Lockdown Period in Uttarakhand' and 'Production of biodiesel from waste of *citrus maxmia* seeds and its blends with n butanol-diesel; purification, utilization of glycerol obtained as a byproduct' were delivered in this session in hall 1 respectively. Parallel session in hall 2 included 02 invited lectures by Prof. Sanjay Kumar on 'CSIR-UGC (NET/JRF) orientation lecture in Chemical Sciences' and Dr. Prashant Dwivedi, Head, Department of English, Dr. B. R. Ambedkar Government Girls PG College, Fatehpur, Uttar Pradesh on 'Technological Changes and Renewed Scientific Approach as Important Drivers of Recent Indigenous Development across India with Special Reference to Uttarakhand'. The session also comprised 15 oral presentations and 10 online



presentations in each hall. Along with oral presentations, paper presentations through posters were displayed in another hall.

Both the technical sessions were highly informative and interactive. Students actively participated in the technical sessions and cleared their doubts and queries. The researchers were asked questions by the experts and other participants. Various suggestions were also given by experts to the presenters regarding the improvement in their research work. There were 09 poster presentations. The Judges of the poster presentations (Prof. Madhu Thapliyal and Dr. Seema Baniwal) evaluated the posters and interacted with the presenters. Healthy discussions took place between the experts and the presenters.

### **Valedictory Session**

The Conference concluded with a Valedictory session wherein the certificates were distributed to all the participants. Best paper awards were given to the research scholars and students to motivate them for their research work. Rhythm Maini, GBPUAT secured the first position for her work Titled 'Digital agriculture field measuring device: Wheel-O-Meter' followed by Aditi Uniyal, Rajkiya Mahavidyalaya Chinyalisaur at second position for 'Vegan' and Bharti, GPGC Ranikhet was at third position for her research 'A study of the Contribution of Butterflies in Ecological Balance in Uttarakhand' in the oral presentation category.

Two papers were awarded the best poster award (Manisha Palni and Leelawati Nitwal) for their research papers titled 'Comparative Study of Terpenoid Composition and Antibacterial Activity of the Essential Oil from the Whole Aerial Parts and Roots of *Laportea terminalis* Wight' and 'Chemical Composition', 'Variation and Antibacterial Activity of Essential Oil from Flowers, Leaves and Roots of *Tanacetum dolichophyllum* (Kitam.) Kitam' respectively). Kasak Nautiyal and Rakhi were in second position for their poster titled 'Anthropogenic Impact on Bhagirathi River' and Sonali and Kiran Nautiyal secured the third position for their poster titled 'Recycling of e-waste.'

The valedictory addresses of the Guest of Honour, Dr. Dharendra Singh, Associate Professor, Department of Mathematics Pt. L.M.S. SDSUV Campus, Rishikesh and Chairperson, Prof. Prabhat Dwivedi offered an apt conclusion to the conference with a specific summing up of the theme of the conference and the acknowledgment of the efforts of the whole organising committee.

Mementos and honours were also given to the Session Chairs. Dr. Rajni Lasyal, Convener of the conference proposed a vote of thanks to all the delegates, participants, UCOST, Organizing and Technical Committees for the smooth conduct of the conference.



## Recommendations of the Conference

- The conference was highly applauded for bringing together great minds from different fields of science and technology to traverse the dimensions and challenges of harnessing indigenous technologies with innovations in order to promote sustainable development in the region.
- Increase investment in research and development (R&D) in the fields of science and technology to promote indigenous development in Uttarakhand.
- Develop innovative technology solutions and infrastructures to address the challenges faced by the indigenous population in Uttarakhand.
- Promote public-private partnerships to facilitate access to technology and support indigenous entrepreneurs in Uttarakhand.
- Provide technical and financial assistance to innovative startups and SMEs to foster indigenous development in Uttarakhand.
- Identify and develop innovative models of technology transfer and knowledge sharing to address the specific needs of the local population in Uttarakhand.
- Create a conducive environment for indigenous innovation and technology development in Uttarakhand by creating a strong network of universities, research institutes, incubation centres, and other stakeholders.
- Develop an integrated strategy for technology adoption and adaptation in the state to ensure sustainable development.
- The theme of the conference is the need of hour and innovation in science and technology should be implemented keeping in mind the geographical condition of the state so that its beautiful landscape and rich and diverse culture remain intact.
- There is a need of complementing traditional technologies and manpower with new-age innovative technology to solve the specific issues of the state and creating a skilled workforce. Harnessing the full range of technologies (traditional, conventional, and modern) would go a long way in national development.
- In order to understand how innovations in science and technology can help to promote sustainable development for these communities, it is important to first understand their current situation. The region has been struggling economically for decades now, due to infrastructural issues that are related both to natural disaster prevention and social development.
- Establish an effective monitoring and evaluation system to ensure the effective implementation of the recommendations.

The Conference has shown the way as to what can be achieved through such events that are supported by organizations like UCOST and have active participation from students and academics.



### List of Speakers

#### Keynote Address:

Prof. Madhu Thapliyal, Head, Department of Zoology, R.C.U. Government PG College, Uttarkashi

#### Invited Lectures:

1. Prof. Yogesh Kumar Sharma, Head, Department of Physics, Pt. L.M.S. SDSUV Campus Rishikesh
2. Prof. Sanjay Kumar, Principal, Government Degree College, Haldwani Shahar
3. Dr. R. K. Singh, Head, Department of Zoology, Lal Bahadur Shastri Government PG College, Halduchaur
4. Dr. Seema Baniwal, Associate Professor, Department of Chemistry, Pt. L.M.S. SDSUV Campus Rishikesh
5. Dr. Harish Chandra Joshi, Assistant Professor, Department of Chemistry, Graphic Era Deemed to be University
6. Dr. Prashant Dwivedi, Head, Department of English, Dr. B. R. Ambedkar Government Girls PG College, Fatehpur, Uttar Pradesh on 'Technological Changes and Renewed Scientific Approach as Important Drivers of Recent Indigenous Development across India with Special Reference to Uttarakhand'.

#### Participation

152 participants (online/offline) graced the conference with their presence. Registration fees was exempted for the students and Faculty members of Rajkiya Mahavidyalaya Chinyalisaur to increase their participation.

#### List of Paper Presenters

S.No.	Name	College/Institute	Title of Paper
1	Aaradhna Chauhan	R.C.U. Govt. (P.G.) College, Uttarkashi	EXPLORATION OF TRADITIONAL AND CURRENT FOOD USE OF WILD PLANTS IN BHATWARI BLOCK, UTTARKASHI, UTTARAKHAND
2	Abdul Ahad	Shaheed Jagdish Prasad Purohit Government Degree College, Nandanagar (Ghat)	GARHWAL AT THE TIME OF JIM CORBETT, AND MINE: THE MIGRATION AND ITS CAUSE
3	Aditi Uniyal	Rajkiya Mahavidyalaya Chinyalisaur	Vegan
4	Amit Jaiswal	Government Girls PG College, Bindki, Fatehpur	Innovative Paradigms of Sustainable Agricultural Development With Special Reference to Uttarakhand
5	Anuja Rawat	P. S. B. Government degree college Lambgaon tehri garhwal	भारत में जल संरक्षण और प्रबंधन

6	Arvind Singh Rawat	Government PG College New Tehri	खाई, जौनपुर, जौनसार की सामाजिक एवं सांस्कृतिक परंपराएं: एक विन्ध्यपारलक अध्ययन
7	Ashok Kumar	V.S.K.C Government PG College Dakpathar	शिक्षा में तकनीकी एवं विज्ञान का महत्त्व
8	Awadesh Kumar	Banaras Hindu University Varanasi	उत्तराखंड के सामाजिक-आर्थिक विकास में विज्ञान एवं प्रौद्योगिकी की भूमिका
9	Baby Gargi	Graphic Era Deemed to be University, Dehradun	Revisiting the Nutritional, Chemical and Biological Potential of <i>Cajanus cajan</i> (L.) Millsp.
10	Bharti	SSJDVSSS GPGC, Ranikhet, Almora	A STUDY OF THE CONTRIBUTION OF BUTTERFLIES IN ECOLOGICAL BALANCE IN UTTARAKHAND
11	Chandra Nabiyal	Government degree college Baluwakote, SSJ university, Almora	Resource management by belief system -kuamun trans himalaya region
12	Deepak Rana	Graphic Era Deemed to be University, Dehradun	Impact on ecology of Assi Ganga after major cloud burst and Flood
13	Desh Deepak	LSM PG COLLEGE PITHORAGARH	Synthesis, characterization and antimicrobial activity of C-N containing metal organic framework
14	Dr Komal Gupta	SSJDVSSS GOVT. P.G. COLLEGE RANIKHET	Allelopathy : A bioherbicidal approach towards weed management
15	Dr Nishant Bhatt	Government Post graduate College New Tehri	Social economic development of uttarakhand in context of science and technology
16	Dr Pragya Joshi	SMJN PG College, Haridwar	A review on the medicinal utility of Maiden Hair fern- <i>Adiantum</i> Linn. (Pteridophyta) in traditional and indigenous system of medicine
17	Dr Punita Sharma	SMJN(PG)College, Haridwar	A Method validation of Loratadine from UV-Spectrophotometric Method
18	Dr Rohit Kumar	Ramanand institute of Pharmacy & Management Jwalapur Haridwar	Impact of external influencing factors on consumer buying decision
19	Dr Sangeeta Rawat	SDM GOVT.PG College Doiwala, Dehradun	Integrated fish farming for sustainable development in Uttarakhand
20	Dr Shivani	HEC Group of Institutions, Haridwar	PVP stabilized Ni (0) Nanoparticles: Synthesis, Characterization and application as catalyst in oxidation of acid red 26 mono azo dy
21	Dr. Ajay Kumar	Dr. B. R. Ambedkar Government Girls Post Graduate College Fatehpur	Fish diversity loss due to anthropogenic activity in Gangotri region
22	Dr. Anchala Nautiyal	Government Degree College Thatyur, Tehri Garhwal, Uttarakhand	Biochemical changes caused by fungus in soyabean plants and its effect on growth and development of <i>Spodoptera litura</i> larvae
23	Dr. Anita Panday	MODERN INSTITUTE OF TECHNOLOGY, DHALWALA, RISHIKESH	CCA : A survival strategy of cyanobacteria
24	Dr. Bhanu Pratap Singh Gautam	Laxman Singh Mahar Government Post Graduate College, Uttarakhand	1-D Polymers $Cu_xNi_{1-x}(L)_y \cdot nH_2O$ : Creative Synthesis and Physical Properties
25	Dr. Chandra Bhushan	Dr. Bhim Rao Ambedkar Rajkiya snatkottar mahila Mahavidyalaya, Fatehpur	New Frontiers in Science And Technology
26	Dr. Hemendra Kumar Tripathi	Shivalik College of Engineering, Dehradun	Hazardous Effect of Microwave Radiation on Living Tissues
27	Dr. Jagdish Chandra	R. S. R. Govt. Degree College Barkot (Uttarkashi)	Study of Various Disasters, their Causes and Effects in Chamoli District
28	Dr. Jai Laxmi Rawat	R. C. U. Government P. G. College Uttarkashi	Impact of foliar application of Zn on <i>Pelargonium graveolens</i> in Himalayan region
29	Dr. Jyoti Kumari	Dr.B.R. Ambedkar Government Girls Postgraduate College Fatehpur Uttar Pradesh	Disaster management and landslide control

30	Dr. Kamal Kumar Bisht	R. C. U. Government P.G. College, Uttarkashi	Subtle Climatic changes in Uttarakhand in context of Sustainable Development
31	Dr. Keshav Prasad Dabral	Dev Bhoomi Uttarakhand University	Role of Science and Technology in the Socio-Economic Development of Uttarakhand
32	Dr. Mahidhar Prasad Tiwari	R.C.U. Govt. Degree College Uttarkashi	Status of Water Quality Index of Bhagirathi River in Uttarkashi, Uttarakhand, India
33	Dr. Manjul Gondwal	Laxman Singh Mahar Government Post Graduate College, Uttarakhand	Synthesis, characterization, catalytic and antimicrobial activity of Silver nanoparticles using <i>Skimmia anquetilia</i>
34	Dr. Naresh Chandra	GMIC Banjbagad Ghat Chamoli	*उच्च हिमालय की संवेदनशील पारिस्थितिकी के लिए विशिष्ट विकास एवम पर्यावरणीय नीति की अनिवार्यता: एक समीक्षात्मक विश्लेषण*
35	Dr. Naveen Kohli	Govt. PG College Joshimath chamoli Uttarakhand	Impact of Nanotechnology in Environment Issues
36	Dr. Nidhi Srivastava	MODERN INSTITUTE OF TECHNOLOGY, DHALWALA, RISHIKESH	Beneficial effect of Plant growth promoting rhizobacteria for crop production in agriculture
37	Dr. Nivedita Sharma	University of Patanjali, Haridwar	Homa Therapy: A Powerful Tool for Combating Soil, Water, and Environmental Issues
38	Dr. Pooja	ROORKEE COLLEGE OF ENGINEERING, ROORKEE, UTTARAKHAND	A Kinetic study of a Highly Ultrafine Core-shell Ir-Cu Bimetallic Nanoparticles and Their Application in Catalytic Oxidation of Textile Dye, Congo Red by Hexacyanoferrate(III) ions.
39	Dr. Pratibha Baluni	GDC Dehradun Sehar College, Dehradun	Bio-control and Integrated pest management in Organic farming in Uttarakhand.
40	Dr. PREETI SAXENA	Doon ( PG ) College of Agriculture Science and Technology, Dehradun	IMPORTANCE OF NANOTECHNOLOGY IN DISEASE DIAGNOSIS, TREATMENT AND PREVENTION.
41	Dr. Purnima sundriyal	S.M.J.N (P.G.) College, Haridwar	A Review of Electrocoagulation method of treatment of waste water
42	Dr. Renu Gautam	GDC Dehradun Sehar, Dehradun	Bio-control and integrated pest management in Organic farming in Uttarakhand.
43	Dr. Richa Badhani	R. C. U. Government P. G. College Uttarkashi	Study of Traditionally used Indigenous Ethno- veterinary plants of district Uttarkashi
44	Dr. Sangeeta Sidola	Government Degree College Thatyur, Tehri Garhwal, Uttarakhand	Assessment of people regarding the nutritional value of food items of Uttarakhand
45	Dr. Satyanandan Bhagat	Govt. Degree College, Kotabagh Nanital	उत्तराखण्ड के सामाजिक, आर्थिक विकास में विज्ञान और प्रौद्योगिकी की भूमिका
46	Dr. Shakunj Rajput	Government Degree College Bhupatwala, Hardwar	Recycle and Reuse of domestic waste water.
47	Dr. Smita Basera	Government degree college, Bhopatwala Haridwar	Review of landslides causes, imapcts and mitigation of Himalayas
48	Dr. Sukhpal Singh Routela	Swami Vivekanand Govt. P. G. College Lohaghat, Champawat, Uttarakhand	Role of Skill and Entrepreneurship Development in Uttarakhand
49	Dr. Surbhi Pradhan	S.M.J.N (P.G.) College, Haridwar	Therapeutic Potential of Medicinal Plants
50	Dr. Tanuja Tiwari	SSJWSSS Govt. P.G. College Ranikhet Uttarakhand	Conservation of Biodiversity through Biotechnological Approaches.
51	Dr. Tilak Ram Prajapati	R.C.U. Govt. Degree College Uttarkashi	Status of Water Quality Index of Bhagirathi River in Uttarkashi, Uttarakhand, India
S52	Dr. Uttam Kumar Shukla	Dr.B.R. Ambedkar Government Girls Postgraduate College Fatehpur Uttar Pradesh	स्थानीय नवाचार एवं उद्यमिता में विज्ञान तथा तकनीक का उपयोग
53	Dr. Vijay Singh Rana	Phool Singh Bisht Govt. Degree College, Lambgaon (Tehri Garhwal)	Impact of sputtering power on AZO thin films grown on PTFE flexible substrate

54	Dr. Vinod Singh Farswan	Govt p g college gairsain chamoli	Science and Technology among Pastoral Communities of Garhwal Himalayas वेद विहित पर्यावरण संरक्षण
55	DR.CHARU MISHRA	Dr.B.R.AMBEDKAR GOVERNMENT GIRLS P.G.COLLEGE,FATEHPUR,UTTAR PRADESH	Role of Science and Technology in Mitigating Climate Change
56	Dr.Gitanjali Mishra	Government Degree College Baluwakote Pin code 262576, Pithoragarh Uttarakhand	Changin trends in organic farming in Uttarakhand
57	Dr.Kamna Lohani	Govt.degree college, dehradun sahar	Changin trends in organic farming in Uttarakhand
58	Dr.Manju bhandari	Govt.degree college, dehradun sahar	Traditional Water Conservation and Management Systems in Uttarakhand
59	Dr.Neeta Bhatt	Govt.P.G.College ,Kotdwar	Changin trends in organic farming in Uttarakhand
60	Dr.Pratyusha Thakur	Govt.degree college, dehradun sahar	Role Of Science and Technology in Mitigating Climate Change.
61	Dr.ZIA TASNEEM	Dr.B.R. Ambedkar Government Girls Postgraduate College Fatehpur Uttar Pradesh	Drug Phospholipid Complex
62	Durga	Sardar Bhagwan Singh University, Balawala, Dehradun, Uttarakhand	Plastic pollution and its adverse impact on environment and ecosystem
63	Durga Prasad	Govt.Post graduate college Gairsain(chamoli)	Qualitative determination of Endocrine Disrupting Chemicals (Phthalates) in full scale ASP and SBR based Wastewater Treatment Plants WWTPs)
64	Gita Saini	K. L. D. A. V. P. G. College, Roorkee, Uttarakhand	Role of green chemistry in the agricultural development of rural areas of uttrakhand
65	Kailash Singh Rawat	R.C.U. Govt. PG College Uttarkashi	Anthropogenic Impact on Bhagirathi River
66	Kasak Nautiyal	Rajkiya Mahavidyalaya Chinyalisaur	Recycling of e-waste
67	Kiran Nautiyal	Rajkiya Mahavidyalaya Chinyalisaur	Water Potability Analysis Of River Lohawati And Its Surrounding Aquifers (Naula) in District Champawat, Uttarakhand
68	Lata Kharkwal	S.V.Govt.P.G College Lohagaht	Chemical Composition, Variation and Antibacterial Activity of Essential Oil from Flowers, Leaves and Roots of Tanacetum dolichophyllum (Kitam.) Kitam
69	LEELAWATI NITWAL	D.S.B. CAMPUS, KUMAUN UNIVERSITY, NAINITAL	Changin trends in organic farming in Uttarakhand
70	Madhuri Kohli	Govt.degree college, dehradun sahar	Comparative Study of Terpenoid Composition and Antibacterial Activity of the Essential Oil from the Whole Aerial Parts and Roots of Laportea terminalis Wight.
71	MANISHA PALNI	D.S.B. CAMPUS, KUMAUN UNIVERSITY, NAINITAL	Diseases and their impacts on fish production -Special reference to Uttarakhand
72	Mohini Rana	HNBGU (SRT Campus Badshahithaul Tehri Garhwal)- 249199	Bag Packer- A Grain Collector and Bagging Machine
73	Mohit Bhatt	Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, U.S.Nagar, Uttarakhand	An innovative approach for oxidative coupling of o-aminophenol using hexacyanoferrate (III) ions in the presence of terpyridine derivative based copper complex
74	Monika Rani	Kanya Gurukul Campus, GK(DU), Haridwar	Development of some new schiff base transition metal complexes and its application
75	Mrs Chandrakala Singh	L.S.M.GOV.T.P.G COLLEGE PITHORAGARH	Addressing sensitive issues of Uttarakhand
76	Niyati Rawat	D.S.B. Campus Kumaun University Nanital	

77	Pooja Singh	Graphic Era (Deemed to be University)	Synergistic Antibacterial Activity of <i>Lantana camara</i> L., <i>Parthenium hysterophorus</i> L., <i>Cannabis sativa</i> L. and <i>Justicia adhatoda</i> L. Leaves Extract against Procured Multi-drug Resistant Bacteria In Vitro
78	Prateek Gurani	Graphic Era Deemed to be University, Dehradun	Science, Medicines and Diseases
79	Prof Lakshmina Bharti	Dr.B.R. Ambedkar Government Girls Postgraduate College Fatehpur Uttar Pradesh	Major Scientific Innovations and Technologies Used to Improve Environmental Sustainability
80	Prof. Ritu Mittal	Swami Vivekanand Government P.G. College, Lohaghat	Water Resource Management and Waste Water Treatment.
81	Prof.(Dr. Ruchi H Arya)	Government Degree College Mori	Environmental Protection and Management
82	Prof.Shakuntla	Dr.B.R.A.G.G.P.G.College Fatehpur	जल संसाधन प्रबंधन समस्या एवं समाधान
83	Rajeev Lochan	HNBGU SRT CAMPUS BADSHAHITHAUL TEHRI GARHWAL UTTARAKHAND.	"VOCAL PERFORMANCE OF HIMALAYAN MONAL IN KEDARNATH MUSKDEER SANCTUARY "
84	Raju	Dolphin PG Institute of Biomedical & Natural Sciences, Dehradun	Development and Validation a RP-HPLC Method for the Quantitative Estimation of Oxetacaine from Marketed Tablets
85	Rakhi Panwar	Rajkiya Mahavidyalaya Chinyalisaur	Anthropogenic Impact on Bhagirathi River
86	Ramesh Singh	Dr.B.R. Ambedkar Government Girls Postgraduate College Fatehpur Uttar Pradesh	<i>Mucuna pruriens</i> ( Velvet bean ) : A good herb for betterment of human health .
87	Rhythm Maini	College of Agriculture, G. B. Pant University of Agriculture and Technology, Pantnagar	Wheel-o-meter
88	Roshan Lal	Laxman Singh Mahar Govt. P.G. College, Pithoragarh-262502, Uttarakhand, India	C=N-containing metal organic framework: synthesis, characterization, and antimicrobial activity
89	Ruchika Sharma	SGRR University dehradun	Synthesis and Characterization of Silver nanoparticles mediated by <i>Alternanthera philoxeroides</i> leaves extract
90	Ruchita	HNBGU SRINAGR GARHWAL	Pollen morphology of bee forage plants present in Rajaji Tiger Reserve and nearby areas.
91	Sarita Kalakoti	LS M Govt P G College Pithoragarh	Nanoparticles and their role in Water resource management and Wastewater treatment
92	Saurav Chandra Bhatt	Graphic era deemed to be university Dehradun	<i>Myrica esculenta</i> an industrial important non-conventional fruit of Himalaya
93	Savir Husain	SSJU Almora	Novel metal organic framework: synthesis, characterization and antimicrobial activity
94	Shailu Garkoti	L. S. M. Govt. P. G. College Pithoragarh, Uttarakhand	Assessment Of The Disease-Causing Microbes In The Traditional Water Sources Of Pithoragarh City, Uttarakhand, India
95	Shikha	Kanya Gurukul Campus, GK(DU), Haridwar	A Novel Approach for Catalytic Degradation and decolorization of Acid Orange 7 Dye By Hexacyanoferrate(III) Ions In The Presence of Surfactant Assisted Iridium-Nickel Bimetallic Nanoparticles
96	Shivani	HNB Garhwal University, Srinagar (Garhwal)- 246174, Uttarakhand, India	Pollen composition of honey samples collected from traditional hives of <i>A. cerana indica</i> F. in Triyuginarayan, Rudraprayag district, Uttarakhand.
97	Shruti Semwal	Hemwati Nandan Bahuguna Garhwal University Srinagar Uttarakhand	Assessment of Suswa River Water Quality in Dehradun
98	Shweta Uniyal	Govt.I.C.Banchuri Yamkeshwar Pauri Garhwal	Role of science and technology & innovation in achieving sustainable development goals
99	Shyam Lal Batiyata	Govt. P. G. College Gopeshwar Chamoli	Role of science and technology in social and economic development of Uttarakhand

100	Shyam Lal Gautam	GDC Brahamkhal, Uttarkashi	
101	Sonali	Rajkiya Mahavidyalaya Chinyalisaur	जल स्रोतों का संरक्षण (conservation of water sources)
102	Suniti Kumar Kuriyal	Pt.L.M.S.S.D.S.Campus, Rishikesh	Recycling of e-waste
103	Surendra Singh	Quantum University Roorkee - Dehradun Highway, Mandawar, Roorkee, Uttarakhand 247167	Bio-control and integrated pest management in Organic farming in Uttarakhand.
104	Swati Rajwar	B.L.J. PG College, Purola Uttarkashi	Temperature dependent Dielectric and Structural properties of $(Na_{1-x}K_x)NbO_3$ , $(0.460 \leq x \leq 0.485)$
105	Vaishali Dobriyal	Shri Guru Ram Rai University	Improving Waste Management in Uttarakhand: Viable Economical Measures
106	Vibha Kumar	Pt. L.M.S. SDSUV Campus Rishikesh	THE IMPACT OF DIVERSITY OF SOIL MYCOFLORAL COMMUNITY ON ENVIRONMENT
107	Vipin Chandra	Government Degree College Satpuli	Hydrazine: Barriers to internal rotation and geometry
108	Yogita Rajput	Gurukula Kangri University, Haridwar	Medicinal Plants Used in Hair Care
109	किशोरी लाल	राजकीय स्नातकोत्तर महाविद्यालय जोशीमठ, चमोली	A Review of the Literature on Augmented Reality's Use in Retail
			आपदा प्रबंधन और भूस्वतंत्र नियंत्रण

Rajkiya Mahavidyalaya Chinyalisaur is thankful to Uttarakhand State Council for Science & Technology (UCOST) for providing funds to organize the conference. We express our thanks to the eminent speakers who came out of their hectic schedules and presented their findings before us. We are also thankful to the students, teaching and non-teaching staff who helped to make this event a successful one. We are grateful to the participants from various institutes who presented their research work in both online and offline mode and made the event successful.