



**USERC**

Uttarakhand Science Education & Research Centre

Department of Science & Technology  
Government of Uttarakhand



**mi**et  
KUMAON

Dev  
Bhumi  
Foundation  
Kumaon

**Two Days**

**2<sup>nd</sup> International Conference**

**On**

**“Emerging Trends in STEM & Health - Agri Sciences  
for Sustainable Development”**

*(20<sup>th</sup> & 21<sup>st</sup> Feb 2025)*

*in Collaboration With*

Uttarakhand Science Education and Research Centre (USERC)

Organized by

**MIET KUMAON**

Shikha Nagar, Lamachaur, Haldwani, Nainital, Uttarakhand-263139

**Publication Partners**



## **MIET KUMAON**

MIET Kumaon, started in 2011, is a leading educational place in Uttarakhand. The institution provides diverse courses through its colleges. The College of Management & Computer Application offers BBA and BCA programs for business and computer studies. Healthcare programs, including B.Sc. Nursing and GNM courses, are offered by the College of Nursing. The College of Paramedical Sciences provides BPT, BMLT, and BMRIT programs, cultivating skilled professionals in healthcare. MIET Kumaon plays a vital role in providing well-rounded education and conducting research, shaping the future of eager professionals and making a significant impact on education in Uttarakhand. With a strong commitment to excellence and innovation.

**ACIC DEVBHUMI FOUNDATION** is a non-profit organization formed in accordance with Section 8 of the Companies Act, 2013 with registered office located at MIET Kumaon Campus, Shiksha Nagar, Lamachaur, Kaladhungi road, Haldwani, Nainital. The foundation is dedicated to fostering innovation and entrepreneurship within the community.

## **UTTARAKHAND SCIENCE EDUCATION AND RESEARCH CENTRE (USERC)**

USERC was set up in 2005 by the Department of Science and Technology, Government of Uttarakhand as an autonomous organization. It was created with the mandate to bolster scientific temperament in Uttarakhand. To this end, it has been making intensive, across-the-board efforts to support education and promote career prospects in the realms of Science and Technology.

## **BHARTIYA SHIKSHA MANDAL**

Bhartiya Shiksha Mandal, an affiliated organization of the Rashtriya Swayamsevak Sangh (RSS), was established on the occasion of Ram Navami in 1969 with the aim of revitalizing education in India based on national values. The central objective of the organization is to develop a national education policy, curriculum, and teaching methods that are rooted in India's cultural and historical heritage and emphasize holistic development. Headquartered in Nagpur, Bhartiya Shiksha Mandal conducts a wide range of activities to promote Indian education, including research, workshops, publications, and training programs. The organization emphasizes research in all academic disciplines through an Indian philosophical lens, encourages the development of curricula based on Indian values, and organizes conferences and seminars to raise awareness about India's educational needs. Additionally, it provides training for teachers, parents, and administrators to reinforce the importance of Indian culture in education. The Mandal publishes magazines and books in various languages, including Hindi, Marathi, Assamese, and others. With over 24 state-level units across India, Bhartiya Shiksha Mandal continues its mission to strengthen Indian education and ensure that it aligns with the values of the nation, fostering a generation that contributes to national development.

## ABOUT CONFERENCE

Join us on 20<sup>th</sup> & 21<sup>st</sup> Feb 2025 for the 2<sup>nd</sup> International Conference on 'Emerging Trends in STEM & Health-Agri Sciences for Sustainable Development' at MIET Kumaon. This event aims to foster a research culture, addressing challenges in Uttarakhand while welcoming global perspectives. With participants from both local and international arenas, the conference evaluates the latest advancements, innovations, and challenges in STEM, Health Sciences, and Agriculture.

It sets the stage for discussions on cutting-edge research, interdisciplinary collaboration, and sustainable solutions. The conference is highly relevant to Science & Technology development, showcasing applied research with real-world applications. It provides a platform for knowledge dissemination and offers publication opportunities in prestigious journals. The annual event facilitates interdisciplinary knowledge exchange, showcases technological innovations, encourages collaborative research initiatives, and promotes dialogue and networking among participants. Be part of this dynamic platform to explore the latest research, innovations, and ideas in multidisciplinary studies, technological innovations, and research."

### Theme of the Conference (but not limited to):

We invite high-quality, original papers or extended abstracts from faculty, scholars, students, and industry professionals on a wide range of topics, not limited to those listed below:

- **Physics:** Quantum Mechanics, Quantum Computing, Particle Physics, Condensed Matter Physics, Astrophysics and Cosmology, Optics, Atomic Physics, Nuclear Physics, Plasma Physics, and Biophysics.
- **Chemistry:** Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry, Environmental Chemistry, and Materials Chemistry, Green Chemistry: Sustainable Practices, Advances in Organic Synthesis, Analytical Chemistry Techniques for Detection and Analysis, Nanotechnology in Chemistry Applications
- **Life Sciences:** Molecular Biology; Cell Biology; Microbiology; Immunology; Neuroscience; Genetics; Evolutionary Biology; Bioinformatics: Computational Approaches in Life Sciences; Biotechnology; Bioprocessing; Ecology and Environmental Biology; Conservation and Biodiversity Research
- **Mathematics:** Algebra; Number Theory; Geometry; Topology; Mathematical Modeling; Computational Mathematics; Differential Equations; Optimization; Numerical Analysis; Probability Theory; Statistical Inference; Multivariate Analysis; Bayesian Statistics; Applications of Mathematics
- **Engineering & Technology:** Sustainable Infrastructure; Thermal Systems, CFD; Mechanical Engineering; Advances in Robotics and Automation; Electrical Engineering; Renewable Energy Systems; Computer Science and Engineering; Artificial Intelligence and Machine Learning Applications; Internet of Things (IoT) Technologies; Information Technology; Cybersecurity and Data Privacy; Electronics and Communication Engineering; Materials Science; Advanced Materials for Various Applications; Smart Cities and Environmental Conservation; Mechanical and Aerospace Engineering; Composite Materials and Structural Design; Electrical and Electronics Engineering;
- **Agricultural Science:** Sustainable Agriculture Practices; Precision Farming Technologies; Remote Sensing and GIS Applications; Crop Protection Strategies; Agricultural Biotechnology; Climate-smart

Agriculture; Agroforestry; Agricultural Economics; Organic Farming; Soil Science; Water Management in Agriculture; Agricultural Extension Services; Food Security and Nutrition; Animal Husbandry and Veterinary Science; Aquaculture; Emerging Technologies in Agriculture; Horticulture and Vegetable Science; Forest Ecology and Management Forest Biotechnology and Genetics, Biotechnology

- **Health Sciences:** Global Health and Epidemiology; Patient-Centered Care and Nursing Innovations; Telemedicine and Remote Patient Monitoring; Mental Health and Psychiatric Nursing; Healthcare Systems, Policy Implementation, and Public Health; Nutrition; Dietetics; Women's Health; Maternal Care; Gerontology and Aging Healthcare; Paramedical Research; Clinical Innovations, and Training; Pharmaceutical Sciences- Advances in Drug Development and Quality Control; Pharmacology, Pharmacotherapy, and Pharmaceutical Manufacturing; Quality Control
- **Innovation and Sustainable Development:** Entrepreneurial Finance; Innovation in Business Models; Strategic Management; Social Entrepreneurship; Human Resource Management; Project Management; Innovation in Education; Quality Management; Operations Management; Start-up Ecosystems

### Key Dates for Conference

### Dates

<b>Abstract Submission Deadline</b>	<b>31<sup>st</sup> Dec 2024</b>
<b>Notification of abstract acceptance</b>	<b>15<sup>th</sup> Jan 2025</b>
<b>Registration Deadline</b>	<b>31<sup>st</sup> Jan 2025</b>
<b>Full Length manuscript submission (optional)</b>	<b>31<sup>st</sup> Jan 2025</b>

### Conference Charges

<b>Authors</b>	<b>National Fee (Rs)</b>	<b>International Fee (USD)</b>
Research Scholar/Student	500/-	20
Faculties	1000/-	100
Industry	2000/-	200
Attendee	500/-	20

### Note:

- **Only registered authors will be eligible to present their papers and receive certificates.**
- **Each co-author must register individually to be considered for the conference certificate.**
- **The registration fee includes a conference kit, high tea, and either a paper presentation certificate or an attendee certificate, depending on your registration type.**
- **Only presented papers will be featured in the conference proceedings with ISBN.**
- **If any author wishes to publish their manuscript in a journal, the paper publication charges will be applicable separately.**

### **International Advisory Committee:**

**Prof. (Dr.) Anesh Maharaj, University of KwaZulu-Natal, South Africa.**

**Prof. (Dr.) Paolo Blecich, University of Rijeka, Croatia.**

**Prof. (Dr.) Sunzuma Gladys, Bindura University of Science Education, Zimbabwe**

**Prof. (Dr.) Tej Singh, Savaria Institute of Technology, Hungary**

**Dr. Washim Ahmed, Senior Scientist, Sygnature Discovery, Nottingham, England**

**Dr. Abhishek Mishra, Methodist Hospital Houston, Texas Area, USA**

### **National Advisory Committee:**

**Prof. (Dr.) Hem Chandra, Vice-chancellor, HNBMEU, Dehradun**

**Prof. (Dr.) Satpal Singh Bisht, Vice-chancellor, S.S.J. University, Almora**

**Prof. (Dr.) N.S Bhandari, Former Vice Chancellor, S.S.J. University, Almora**

**Prof. (Dr.) Parveen Garg, Principal, Swami Shraddhanand College, Delhi**

**Prof. (Dr.) K.K. Pandey, Principal, Govt. PG College, Bazpur**

**Prof. (Dr.) R.P. Pant, Kumaon University, Nainital**

**Prof. (Dr.) Deepankar Banerjee, Director ARIES Nainital**

**Prof. (Dr.) Jitendra Panadey, Director, CS & IT, UOU, Haldwani**

**Prof. (Dr.) Ajay Kumar, Director, IPEC, Ghaziabad**

**Prof. (Dr.) Brijesh Singh, Director, MIET, Meerut**

**Prof. (Dr.) Alok Chauhan, Director, MIT, Meerut**

**Prof. (Dr.) Naveen Bhagat, Principal, Govt. Degree College, Kotabagh**

**Prof. (Dr.) L.P. Verma, Principal, Govt. Degree College, Sheetlakhhet**

**Prof. (Dr.) O.P. Nautiyal, Senior Scientist, USERC**

**Prof. (Dr.) Chitra Pande, Dean-Science, Kumaon University, Nainital**

**Prof. (Dr.) Kaman Singh, Babasaheb Bhimrao Ambedkar University, Lucknow**

**Prof. (Dr.) R.C Mishra, Professor, GEHU, Haldwani**

**Prof. (Dr.) M.C Joshi, Professor, Kumaun University, Nainital**

**Prof. (Dr.) C.S Mathela, Professor, Kumaun University, Nainital**

**Prof. (Dr.) Lata Pande, Associate Professor, Kumaun University, Nainital**

**Prof. (Dr.) Narendra Sijwali, Professor, MBPG College, Haldwani**

**Prof. (Dr.) Digar Singh Farswan, Associate Professor, UOU, Haldwani**

**Prof. Dr. Manindra Mohan, Scientist, Uttarakhand Council of Biotechnology**

**Prof. Dr. Piyush Joshi, Senior Scientist, UCOST, Dehradun**

**Prof (Dr.) S.B. Singh, GBPUAT, Pantnagar**

**Prof. (Dr.) Anil Kumar, GBPUAT, Pantnagar**

**Prof. (Dr.) Vijay Juyal, Professor, Kumaon University, Nainital**

**Prof. (Dr.) Beena Pandey, Kumaon University, Nainital**

**Prof. (Dr.) Geeta Tiwari, Kumaon University, Nainital**

**Prof. (Dr.) Kumud Upadhyaya, Kumaon University, Nainital**

**Prof (Dr.) Vivekananda, GBPUAT, Pantnagar**

**Prof (Dr.) Om Prakash, GBPUAT, Pantnagar**

**Dr. Brijesh Bankoti, Assistant Regional Director, UOU, Haldwani**

**Dr. Kanchan Karki, Scientist, Uttarakhand Council of Biotechnology**

**Dr. Sumit Purohit, Scientist, Uttarakhand Council of Biotechnology**

**Dr. Pradeep Pratap Singh, Associate Professor, Swami Shraddhanand College, Delhi**

**Dr. Lalit Mohan Pant, Assistant Professor, UOU, Haldwani**

### **Organizing Committee**

**Dr. Saifali Kapoor**

**Mrs. Pushpa Budhlakoti**

**Mr. Charanjeet Singh**

**Mrs. Lalita Takulli**

**Mrs. Sonam Bhandari**

**Mr. Krishna Belwal**

**Ms. Akansha**

**Mr. Mohit Suyal**

**Mr. Vinod Budhlakoti**

**Mrs. Sonam Bhandari**

**Ms. Kavita**

**Mr. Pradeep Bisht**

**Mrs. Aayushi Upadhyay**

**Mrs. Pooja Joshi**

**Ms. Arzoo**

### **Chief Patrons**

**Mr. Vishnu Saran Agarwal, Chairman, MIET Group of Institution**

**Mr. Puneet Agarwal, Vice-Chairman, MIET Group of Institutions**

### **Patrons**

**Prof. (Dr.) B.S. Bisht, Managing Director, MIET Kumaon**

**Prof. Dr. Anita Rawat, Director, USERC, Dehradun**

### **Organizing Secretary**

**Dr. Tarun Saxena, Executive Director, MIET Kumaon**

**Dr. Ashutosh Bhatt, Associate Professor, Uttarakhand Open University**

### **Convenor**

**Dr. K.S. Rawat, CEO, ACIC Devbhumi Foundation**

**Dr. Manisha Koranga, Assistant Professor, Graphic Era Hill University**

**Gunwant, Director, Apex Group of Institution**

**For any further query, please reach out to:**

**Dr. Kamal Singh Rawat +91 9639858711**

**Dr. Tarun Kumar Saxena +91 9720615304**

Or email us at: [Conference24@mietkumaon.ac.in](mailto:Conference24@mietkumaon.ac.in)

[Contact@miet.ac.in](mailto:Contact@miet.ac.in)