



32nd

WEST BENGAL STATE SCIENCE & TECHNOLOGY CONGRESS

28th February - 1st March, 2025

7th

REGIONAL SCIENCE & TECHNOLOGY CONGRESS

To be Jointly Organized by

- Siliguri College, Darjeeling
- Malda College, Malda
- Rampurhat College, Birbhum
- Midnapore College, Paschim Medinipur
- Bidhan Chandra Krishi Viswavidyalaya, Nadia
- Presidency University, Kolkata

Department of Science and Technology and Biotechnology
Government of West Bengal

BACKGROUND

The West Bengal State Science & Technology Congress commenced in 1994, aims to nurture scientific curiosity among young individuals and provide a forum for researchers and scientists to exchange their insights and innovative ideas in diverse fields of science and technology.

From the modest beginning, the Congress has evolved into a strong fraternity of scientists, researchers and academicians to generate and promote the cause of science in the State and stimulate scientific research works towards achieving sustainable development goals.

The two-day event of the West Bengal State Science and Technology Congress typically includes technical sessions where young researchers present their research papers in different scientific discipline; in addition there will be memorial lectures and invited talks addressing critical issues and their scientific resolutions.

Moreover, the Congress acknowledges budding scientists and research scholars for their outstanding papers and presents several State Awards to individuals from different sectors in recognition of their noteworthy contributions to promoting science in the State.

REGIONAL CONGRESS

In the year 2016-17, the Department introduced the Regional Congress as a prelude to the State Congress. This year, the 7th round of the Regional Science & Technology Congress will be held in six regions in collaboration with esteemed colleges and universities of the respective Regions.

The Regional Congress, mirroring the format of the West Bengal State Science & Technology Congress, will also be a two-day event featuring similar activities. Authors selected at the Regional level will be invited to present their papers at the State level.

Schedule of Regional Congress:

<i>Sl No</i>	<i>Region</i>	<i>Comprising Districts</i>	<i>Name of the Host Institute</i>	<i>Date of Regional Congress</i>
1	Region 1	Alipurduar, Coochbehar, Darjeeling, Jalpaiguri, Kalimpong	Siliguri College, Siliguri, Darjeeling	24 th & 25 th January, 2025
2	Region 2	Dakshin Dinajpur, Uttar Dinajpur, Malda, Murshidabad	Malda College, Malda	7 th & 8 th January, 2025
3	Region 3	Birbhum, Paschim Bardhaman, Purba Bardhaman, Hooghly	Rampurhat College, Rampurhat, Birbhum	10 th & 11 th January, 2025
4	Region 4	Bankura, Jhargram, Paschim Medinipur, Purba Medinipur, Purulia	Midnapore College, Midnapore, Paschim Medinipur	3 rd & 4 th January, 2025
5	Region 5	Howrah, Nadia, North 24 Parganas, South 24 Parganas	Bidhan Chandra Krishi Viswavidyalya, Mohanpur, Nadia	14 th & 15 th January, 2025
6	Region 6	Kolkata (KMC area)	Presidency University, Kolkata	17 th & 18 th January, 2025

West Bengal State Science & Technology Congress:-28th February & 1st March, 2025

FOCAL THEME

The Focal theme for this year's Science Congress is 'Applications of Emerging Technologies including AI/ML in Sustainable Development.' The Congress aims to discuss how AI and ML can drive innovation and tackle complex challenges for a sustainable future. The event will include presentations of scientific papers by researchers at both the Regional and State levels, focusing on the potential of emerging technologies in sustainable development.

TECHNICAL SESSIONS AND SUBJECT AREAS

The 32nd West Bengal State Science & Technology Congress invites young researchers, scientists, and academicians to present scientific research papers in various subject areas. Additionally, papers related to "Applications of Emerging Technologies including AI/ML in Sustainable Development" will be presented as an independent domain, regardless of their possible classification in another scientific discipline.

i. Physical Sciences

ii. Chemical Sciences

iii. Statistics, Mathematical Sciences, IT and its Applications

iv. Engineering Science and Technology

v. Earth Sciences including Geoinformatics and Hydrogeology

vi. Botany

vii. Zoology

viii. Biotechnology

ix. Physiology and Medical Sciences including Forensic Sciences

x. Environmental Sciences including Climate Change

xi. Agriculture, Horticulture, Fisheries and Veterinary Sciences

xii. Focal Theme: Applications of Emerging Technologies including AI/ML in Sustainable Development

A panel of Experts will select the best Papers for each subject area and sub-topics.

MEMORIAL LECTURES

There will be three memorial lectures in the honour of eminent scientists and S & T visionaries, namely, Sir Jagadish Chandra Bose, Prof. Prasanta Chandra Mahalanobis and Sir C.V. Raman. The Lectures will cover popular scientific topics.

INVITED LECTURES

Each Technical Session will begin with an invited lecture, wherein an eminent scientist will deliver a lecture on a current and challenging topic and interact with the participants.

SUBMISSION OF ABSTRACT

- Online Abstracts of original and unpublished research papers are invited from potential Research Scholars / Scientists/ Academicians in any of the twelve scientific disciplines including the thematic topic.
- Authors are required to register online for submission of Abstracts (<https://dstbt.bangla.gov.in/vigyanchetana/>).
- Abstracts should be written in English and should not exceed 250 words to facilitate peer review.
- An author can submit only one paper in any of the above disciplines including the thematic topic.
- An Author will be allowed to submit the Abstract in any of the two Regions:
 - the Region where the institution with which he/she is affiliated is located
 - or
 - where he/she permanently resides

PRESENTATION OF THE PAPERS (AUDIO-VISUAL)

- The Abstracts submitted at the Regional level will be shortlisted based on the content, methodology, results, critical analysis and interpretation of scientific findings.
- After qualitative checking of the Abstracts, checking for plagiarism will also be done with the help of the software to be provided by this Department. In checking for plagiarism, this Department will adhere to the UGC regulations.
- Authors of the shortlisted Abstracts will be invited to present their papers in an audio-visual format at the Regional level.
- Each presenting author will have 12 minutes for his/her presentation (8 minutes for audio-visual presentation and 4 minutes for discussion).
- The best three papers in each discipline will be awarded at the Regional level and recommended for participation in the 32nd West Bengal State Science & Technology Congress.

E-PUBLICATION OF THE ABSTRACTS

The abstracts of the accepted papers will be published electronically to ensure wider accessibility of the intended researchers, scientists, academicians and others to the Abstracts.

OUTSTANDING PAPER AWARD

To encourage budding researchers, there will be an Outstanding Paper Award both at the Regional level as well as State level.

- **At the Regional level:** The Authors of the best three Scientific Papers in each discipline will receive a Certificate of Merit, Memento and a Cash Prize of Rs. 10,000/- each and they will be invited to participate in the State Science and Technology Congress.
- **At the State level:** The best three Scientific Papers in each discipline will be recognized with a Certificate of Merit, Memento and Cash Prize of Rs. 15,000/.

RESEARCH FELLOWSHIP AWARD AND RESEARCH GRANT AWARD

The State-level award-winning papers will undergo additional review by the inter-sectoral Expert Committee to determine the recipients of the Research Fellowship and Research Grant Awards. These Awards will be given to the Principal Author of the selected scientific paper.

Under the Research Fellowship Award, the top five researchers of Outstanding papers will be awarded the fellowship for carrying out research works on the subjects relevant to the State and pursuing a Ph.D Degree simultaneously.

The following research fellowships, named after the eminent scientists will be awarded to them:

- Acharya Jagadish Chandra Bose Research Fellowship Award
- Acharya Prafulla Chandra Roy Research Fellowship Award
- Prof. Meghnath Saha Research Fellowship Award
- Prof. Satyendranath Bose Research Fellowship Award
- Dr. Upendranath Brahmachari Research Fellowship Award

Additionally, the top two academicians or professors with exceptional papers will be recognized with the Research Grant Award. This grant will support R&D projects addressing social issues for a maximum period of three years. These awards are named after great social reformers of Bengal:

- Rabindranath Tagore Research Grant Award
- Swami Vivekananda Research Grant Award

FINANCIAL SUPPORT FOR FILING UTILITY PATENT

After assessing the patentability, the Authors participating at the State Level will be encouraged to file a utility patent for which technical guidance and financial support will be provided by the Department.

PARTICIPANTS

The participants for the Science Congress will include Research Scholars, Scientists, PG students, Academicians, Faculties of Colleges / Universities, Technologists, Industrialists and Policy Makers.

SCOPE OF INTERACTION WITH THE EMINENT SCIENTISTS

Post-Graduate students / researchers will be given an opportunity to attend the memorial lectures / invited lectures and interact with eminent scientists of the respective fields both at the Regional level as well as State level. Those who are interested to avail of this opportunity are requested to register online (<https://dstbt.bangla.gov.in/vigyanchetana/>) for this purpose.

ACCOMMODATION

Limited accommodation may be arranged for outstation participants.

REGISTRATION FEE

NIL (For all categories of participants)

For further details please visit <https://dstbt.bangla.gov.in/vigyanchetana/>

Website: <https://dstbt.bangla.gov.in/vigyanchetana/>

E-mail id: wbsstc25@gmail.com and wbsstc@gmail.com

Last date for submission of Abstracts: 23rd October, 2024

Government of West Bengal
Department of Science and Technology and Biotechnology

Organises

West Bengal State Science & Technology Congress
&
7th Regional Science & Technology Congress

A forum for scientific research to synergise new ideas with societal needs



Last date for submission of Abstracts: 23rd October, 2024

Website: <https://dstbt.bangla.gov.in/vigyanchetana/>

E-mail id: wbsstc25@gmail.com, wbsstc@gmail.com