



# 31<sup>st</sup> WEST BENGAL STATE SCIENCE & TECHNOLOGY CONGRESS

28th - 29th February, 2024



## Venues of 6<sup>th</sup> Regional S & T Congress

-  Ananda Chandra College, Jalpaiguri
-  Govt. College of Engineering  
& Textile Technology, Berhampore
-  Durgapur Govt. College, Durgapur
-  Sidho-Kanho-Birsha University, Purulia
-  University of Kalyani, Kalyani
-  University of Calcutta, Kolkata

**Department of Science and Technology and Biotechnology  
Government of West Bengal**

## ***BACKGROUND***

The West Bengal Science & Technology Congress started its journey in the year 1994 with the goals of fostering scientific temper in young minds and providing a platform for researchers and scientists to share their experiences and research findings for promotion of the science and technology in the State. Since then, it is being organised as an annual congregation of students, scientists, researchers, academicians, technocrats and policy-makers for sharing and dissemination of new scientific ideas and innovations in diverse fields of Science and Technologies. In 2017 the Department introduced regional congress as a precursor to the two-day State Congress.

The State Science and Technology Congress generally accommodates technical sessions involving the presentation of research papers by young researchers, memorial lectures and invited lectures on the challenging issues and their scientific solutions. Additionally, budding scientists and research scholars are felicitated for their outstanding papers and various State Awards are handed over to achievers from different walks of life for their outstanding contribution to the field of Science popularisation in the State.

## ***REGIONAL CONGRESS***

As a forerunner to the 31<sup>st</sup> West Bengal State Science & Technology Congress, the 6th round of the Regional Science & Technology Congress will be organized in six different regions of the State in collaboration with the following esteemed Universities / Colleges. These Regional Congress, being a reflection of the West Bengal State Science & Technology Congress will also be a two-day program and have events similar to the State Congress. Authors selected at the Regional level will be invited to participate at the State level.

| Sl No | Region   | Comprising Districts   | Name of the Host Institute  | Date of Regional Congress                         |
|-------|----------|--|---|---|
| 1     | Region 1 | Alipurduar, Coochbehar, Darjeeling, Jalpaiguri, Kalimpong      | Ananda Chandra College, Jalpaiguri  | 15 <sup>th</sup> & 16 <sup>th</sup> January,2024  |
| 2     | Region 2 | Dakshin Dinajpur, Uttar Dinajpur Malda, Murshidabad            | Government College of Engineering and Textile Technology, Berhampore, Murshidabad | 18 <sup>th</sup> & 19 <sup>th</sup> January,2024  |
| 3     | Region 3 | Birbhum, Paschim Burdwan, Purba Burdwan, Hooghly               | Durgapur Government College, Paschim Bardhaman                                    | 9 <sup>th</sup> & 10 <sup>th</sup> January,2024   |
| 4     | Region 4 | Bankura, Jhargram, Paschim Medinipur, Purba Medinipur, Purulia | Sidho-Kanho-Birsha University, Purulia  | 12 <sup>th</sup> & 13 <sup>th</sup> December,2023 |
| 5     | Region 5 | Howrah, Nadia, North 24 Parganas, South 24 Parganas            | University of Kalyani, Nadia  | 3 <sup>rd</sup> & 4 <sup>th</sup> January,2024    |
| 6     | Region 6 | Kolkata (KMC area)   | University of Calcutta, Kolkata   | 21 <sup>st</sup> & 22 <sup>nd</sup> December,2023 |

### ***FOCAL THEME***

The Department has decided to have a sector focussing on challenging issues of national relevance. The focal theme of this year's Science Congress is '**Science and Technology in Disaster Management**'.

In recent years, unplanned development, deforestation, ecological disorders and climate change in conjunction with rapid population growth have put immense pressure on natural ecosystems and increased the severity of natural disasters. Science and technology can play a crucial role in disaster management covering the entire gamut from prevention and mitigation to response and recovery. Scientific research can focus on the identification of interventions that help in mitigating the impact of natural disasters as well as in identifying potential hazards, reducing the risk of occurrence, early prediction, communication and suggesting adaptive measures. In this year's round of congress, there will be deliberations on the strategies for coping with natural disasters besides the presentation of the scientific papers by the researchers both at the Regional level as well as the State level.

### ***TECHNICAL SESSIONS AND SUBJECT AREAS***

Now, the 31st West Bengal State Science & Technology Congress invites young researchers/scientists/academicians to present scientific research papers in the following disciplines/ subject areas. Additionally, papers related to “***Management of Disasters***” will be presented as an independent domain irrespective of their possible classification in another scientific discipline.

- Physical Sciences ;
- Chemical Sciences ;
- Statistics, Mathematical Sciences, IT and its Applications ;
- Engineering and Technology Sciences including Emerging Technologies ;
- Earth Sciences including Geoinformatics and Hydrogeology ;
- Botany ;
- Zoology ;
- Biotechnology ;
- Physiology and Medical Sciences, including Forensic sciences ;
- Environmental Sciences including Climate Change ;
- Agricultural Sciences including Veterinary Sciences ;
- **Focal Sector: Science and Technology in Disaster Management**

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

### ***MEMORIAL LECTURES***

There will be three memorial lectures to honour the memory and contribution of three eminent and iconic scientists, namely, Acharya Jagadish Chandra Bose, Prof. Prasanta

Chandra Mahalanobis and Sir C.V. Raman. The Lectures will cover popular scientific topics that are currently trending.

### ***INVITED LECTURES***

At the beginning of each technical session, there will be an Invited Lecture where an eminent scientist will address a contemporary and challenging issue and interact with the participants.

### ***SUBMISSION OF ABSTRACT***

- The intending Research Scholars / Scientists / Academicians are to register online (<https://dstbt.bangla.gov.in/vigyanchetana/>) for submission of Abstracts of their original and unpublished Scientific Research Papers in any of the aforementioned 12 disciplines including the thematic topic.
- Abstracts should not exceed 250 words and to be submitted in English to facilitate peer review.
- An author can submit only one paper in any of the above disciplines including the thematic topic.
- Authors shall submit an abstract to either of the regions where the institute with which he/ she is affiliated is located or where those colleges/ universities of the State are located whose available infrastructure was used in the research leading to the said abstract or where they have permanent residence.

### ***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 against plagiarism will also be done with the help of the software to be provided by this Department. In checking for plagiarism, this Department subscribes to the UGC regulations.
- Authors of the shortlisted Abstracts will be invited for the audio-visual presentation of their papers at the Regional level.
- Each presenting author will get 12 minutes for 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 at the 31<sup>st</sup> West Bengal State Science & Technology Congress.

## ***E-PUBLICATION OF THE ABSTRACTS***

From this year, 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 be awarded a Certificate of Merit, a Memento and a Cash Prize of Rs. 5,000/- 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 recognised with a Certificate of Merit, Memento and Cash Prize of Rs. 7,500/.

## ***RESEARCH FELLOWSHIP AWARD AND RESEARCH GRANT AWARD***

The papers of the State-level awardees will be further examined by the inter-sectoral Expert Committee for awarding a Research Fellowship/ Research Grant to the Principal Author of the concerned 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 PhD degree for a maximum period of five years.

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

1. Acharya Jagadish Chandra Bose Research Fellowship Award
2. Acharya Prafulla Chandra Roy Research Fellowship Award
3. Prof. Meghnath Saha Research Fellowship Award
4. Prof. Satyendranath Bose Research Fellowship Award
5. Dr. Upendranath Brahmachari Research Fellowship Award

Besides, the top two Academicians / Professors will be recognised with the Research Grant for taking up R&D projects on social issues for a maximum duration of three years. Here also, the following awards named after the social reporters of Bengal will be conferred to them -

1. Rabindranath Tagore Research Grant Award
2. 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***

Postgraduate 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 intending to avail of this opportunity are requested to register online (<https://dstbt.bangla.gov.in/vigyanchetana/>) for this purpose.

### ***ACCOMMODATION***

The participants in dire need of accommodation are requested to inform the same during **the online registration** process. Limited accommodation may be arranged for outstation participants.

### ***REGISTRATION FEE***

**NIL (For all categories of participants)**

**Last date for submission of Abstracts: 10<sup>th</sup> October, 2023**

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

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

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**Government of West Bengal**  
**Department of Science and Technology and Biotechnology**

**31st West Bengal State Science & Technology Congress**  
**&**  
**6<sup>th</sup> Regional Science & Technology Congress**

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



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