



**XXXVII Training Programme on Science
Communication and Media Practice 2024-2025**

A Brief Report

Organised by

INDIAN SCIENCE NEWS ASSOCIATION

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with active support from

**University of Calcutta
Sister Nivedita University, Kolkata
Vijaygarh Jyotish Ray College, Kolkata**

Workshop on 'Science Tabloid Making in Bengali'

A 3-day workshop on 'Science Tabloid Making in Bengali' was held from 26th to 28th June, 2024 via Google Meet. It was organised by ISNA as part of the XXXVII Training Program for Science Communication and Media Practice of ISNA. Mrs. Malabika Sengupta, formerly student of Training Programme anchored the whole workshop. Fifteen participants joined in the workshop. Welcome address was given by Shri Prasanta K. Bose, Chairman of the XXXVII Training Programme. Professor Manas Chakrabarty, Honorary Secretary, ISNA, narrated the background of forming ISNA and its mouthpiece publication *Science and Culture*. Dr. Amit Krishna De, Honorary Secretary and Convener of the XXXVII Training Programme explained about the various activities conducted during last two years under the Training Programme. Dr. Debduut Ghoshthakur, former Chief Reporter, Anandabazar Patrika, inaugurated the workshop. Professor Prabir Kumar Saha, Honorary Treasurer, ISNA gave the vote of thanks.

The valedictory session was held on 28th June, 2024. Shri Prasanta K. Bose, Chairman, Organizing Committee welcome address wished that participants would strive for success in science writings. Dr. Amit Krishna De, Convenor, Organizing Committee and Honorary Secretary of ISNA congratulated all the participants for submitting the assignments timely. Dr. Arnab Kumar Banerjee presented 6-page e-paper named 'Sahaj Bigyan' with writeups contributed by the participants and designed by Shri Sukalyan Gain. Professor Basab Chaudhuri, Vice-President, Indian Science News Association, Principal, Heritage Institute of Technology, Kolkata, and Senior Director Education, Kalyan Bharti Trust delivered the Valedictory address. Dr. Amit Krishna De, Convener gave a vote of thanks.

On the occasion of 'Doctors Day 2024' 1st July 2024 handing over of the certificates along with a hard copy of e-paper 'Sahaj Bigyan' to the participants was done by Shri Prasanta K. Bose, Chairman, Training Programme, ISNA and Prof. (Mrs.) Julie Banerji, Vice-President, ISNA.

Fourth Professor Biswapati Mukherjee Memorial Lecture

The 90th Foundation Day of ISNA was celebrated on the 10th July, 2024 at the N.R. Sen Auditorium, University of Calcutta. On that day Fourth Professor Biswapati Mukherjee Memorial Lecture was delivered by Professor Anupam Basu, Raja Ramanna Chair Professor at Jadavpur University, Honorary Professor at Shiv Nadar Varsity, distinguished Honorary Professor at Sister Nivedita University, former Director of National Institute of Technology, Durgapur and former Professor, Department of Computer Science and Engineering, IIT Kharagpur, West Bengal. Professor Basu delivered a lecture on “Where Language Meets Technology”. He asserted on the relation between language and technology, and how technology can be utilized constructively to save local language. He further spoke on some notable personalities like Rudolf Flesch, Dale Chall and Robbert Gunning. He emphasized on the readability of text and Dale-Chall readability formula which is an assessment that gives a number scale of the readability of content. The Dale–Chall formula is one of the ways to predict how difficult a text is to be read. The scientific gathering was enamoured of Professor Basu’s informative lecture. He was felicitated by the dignitaries on the dais after the deliberation. Professor Bikas K. Chakrabarti, Vice-President of ISNA and Former Director of Saha Institute of Nuclear Physics, Kolkata, addressed the gathering and stated about prospects of science communicators in the forthcoming days. Professor Prabir Kumar Saha, Honorary Treasurer of ISNA, delivered the Vote of Thanks. He expressed his heartfelt thanks and gratitude to each and everyone who was a part of the celebration.



XXXVII Training Programme on Science Communication and Media Practice 2024-2025

Organised by
Indian Science News Association

The following activities were carried out under the XXXVII Training Programme

- ❖ Inauguration of XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025 (*via* Google Meet) held on 24th July, 2024 and continued between 24th July 2024 to 9th September, 2024, *via* Google Meet.
- ❖ Certificate Award Ceremony of the XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025 and the release of Volume 3, Issue 2 of *e-Paper Bigyan Kahon* on 30th September, 2024, *via* Google Meet.
- ❖ i) Inauguration of XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025 (*via* Google Meet) held on 5th February, 2025 and continued to 17th March, 2025, *via* Google Meet.

ii) Release of English *e-paper* 'Scientifica Communica', Vol. 4, Issue 1 *via* Google Meet.
- Certificate Award Ceremony of the XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025 on 29th April, 2025.

XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025

ABOUT THE ORGANIZATION

INDIAN SCIENCE NEWS ASSOCIATION

The Indian Science News Association (ISNA) was founded by eminent scientists like **Acharya Prafulla Chandra Ray, Professor Meghnad Saha, Professor B. B. Ray, Professor N. R. Sen, Professor D. S. Kothari** and other stalwarts. The purpose was to promote diffusion of knowledge laying special stress on the progress of scientific studies in India and abroad and advocating methodical application of science to problems of national regeneration. With this objective in view, the ISNA has been publishing a journal *Science and Culture* for more than last ninety years.

ISNA also organises seminars, symposia and training programme on Science Communication and Media Practice to disseminate scientific knowledge and create awareness for the public.

ABOUT THE TRAINING PROGRAMME

Grooming Science Communicators

Present day India is a culmination of historical processes that date back to the Indus civilization and probably beyond. Scientific research has led to our progress and continues to ensure India's prominent position in the world of nations. However, it remains a great disadvantage for all of us that science, even today in this country, remains largely confined to laboratories and universities. The dissemination of scientific knowledge among the masses is an urgent necessity. The Indian Science News Association (ISNA) took on its shoulders the responsibility of grooming those who would take science to the masses. Since 1983 the organization has remained focused on conducting a certificate course on Science Communication and Media Practice. It has, however, been realised that in order to reach out to grassroot level, ISNA needs to spread its tentacles and start at the higher secondary streams. At this juncture the mind is fresh and is more open to adapting to new concepts on what is happening around. Time is changing and changing too fast with the advent of artificial intelligence (AI) and other technical tools, so large unthinkable.

With this in view it has been decided to open for the first time a Basic Course for students at the higher secondary level where they will be taught the basics of science communication through different modes like writing and editing. This will be followed by an Advanced Course where as per previous practice graduates will be taught about the above subjects.

Except for a few unavoidable breaks in between, ISNA's dedication has remained unflinching. ISNA has not only trained students but also produced books, videos, CDs, etc. that continue to serve as effective study material for the trainees. The course includes lectures, workshops, field visits, hands-on experience and orients the students in such a fashion that the learner gets a good exposure to the unfolding secrets of science and technology as well as gains the ability to communicate to the masses through print, audiovisual and social media.

Outline of Course Contents

1. Communication and journalism
2. Media study
3. The art of writing and editing
4. Science communication through audio-visual media
5. The art of conducting Interview
6. Science and society and ethical issues
7. Science Communication through Social Media
8. Lectures on Eminent Indian Scientists and current topics of science
9. Classroom presentations, debates and workshops
10. Audio-visual documentary and Science Newsletter production
11. Interactive sessions, Projects
12. Artificial intelligence

Eligibility

For the Basic Course the Applicants should be HS or equivalent passed. Those having interest in science writing / reporting in newspaper / periodicals / electronic media / social media will be preferred. Applicants will be selected after a written examination and interview. The decision of the Organizing Committee regarding selection will be final.

Certificate

Certificates will be issued at the end of the course to those who will qualify in the final examination, after attending at least 80% classes and completion of class room presentation, the project assigned and evaluated by the committee.

Admission Procedure

The application form & information brochure Price Rs. 100 for the course may be obtained from the office of the **Indian Science News Association**, 92, Acharya Prafulla Chandra Road, Kolkata - 700 009. The application form, duly filled in, should reach by **June 27, 2024**.

Duration of the Course

The duration of the Basic Course is about six weeks, **July-August, 2024**, online classes will be held five days a week, between 5.00 p.m. and 7.00 p.m. *including some Saturdays for workshops.*

A Report on the Activities of the XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025

Inauguration

The XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025 of the Indian Science News Association (ISNA) commenced online with an inaugural ceremony on July 24, 2024 at 5 p.m. The event was graced by the presence of the Office-bearers, Council Members and other Members of ISNA, distinguished Guests, Resource Persons and the past and present students. Shri Prasanta K. Bose, Chairman of the Training Course, delivered the Welcome Address, emphasizing the significance of science communication, as well as the history and benefits of joining the course. Professor Manas Chakrabarty, an Honorary Secretary of ISNA, shed light on the history of the Association and its inception in 1935 by Professor Meghnad Saha, Acharya Prafulla Chandra Ray, Sir U.N. Brahmachari, and other academicians. Dr. Amit Krishna De, the Convener of the Training Course and another Honorary Secretary of ISNA, outlined the benefits and certification of the course, highlighting the two sections of basic and advanced classes, each spanning 6 weeks, and the importance of writing articles to enhance skills.

The Chief Guest Dr. Papiya Nandi, Former Director of JBNSTS and Emeritus Fellow of Jadavpur University, shared her insights on the benefits of the training and advised students to be regular and honest in classes to maximize their learning. Professor Dhrubajyoti Chattopadhyay, Vice-Chancellor, Sister Nivedita University and Vice-President of ISNA, discussed the importance of science communication. Professor Prabir Kumar Saha, the Honorary Treasurer of ISNA, delivered a Vote of Thanks. He expressed his gratitude to all the attendees and extended special thanks to the Chief Guest.

The session concluded with an Introductory Session, during which the present and past students of the course introduced themselves. Following the session, a few Members of the Faculty introduced themselves. Shri Prasanta K. Bose then highlighted the importance of providing scientific news in today's world, emphasizing its relevance to culture. Shri Bose shared insights on various scientific news types and their advantages, delivering a concise yet informative lecture. Finally, the meeting concluded with Dr. Amit Krishna De extending well wishes for the upcoming days and events of the training program.

Brief Report on the Training Imparted

Classes

Fourteen students were enrolled in the course.

Thirty two theoretical classes were held during this period.

The classes started form 25th July, 2024 and ended with a final examination held on 9th September, 2024 (via Google Meet).

Workshops

Eight workshops were arranged on the following topics:

1.	03/08/2024	Science Writing	Dr. Sima Mukhopadhyay and Shri Subhendu Chattopadhyay	via Google Meet
2.	10/08/2024	Tabloid Making in English	Shri Sukalyan Gain	via Google Meet
3.	06/08/2024	Digital Safety and Online Security	Shri Joydeep Dasgupta	via Google Meet
4.	31/08/2024	Internet Radio	Dr. Arnab Kumar Banerjee with his team	Vijoygarh Jyotish Ray College

Meet the Scientists

To acquire practical knowledge as part of the course, arrangements were made for the students to meet renowned scientists and take their interviews. Students met many dignitaries, stated below, and got the opportunity to take their interviews:

- i) Dr. Satyabrata Chakrabarti, General Secretary, The Asiatic Society, Kolkata
- ii) Dr. Subhabrata Roychaudhuri, Founder Secretary, Science Association of Bengal

Debate Competition

Debate competition was arranged for the participants.

Topic: Application of AI in Professional Sectors will Cause Unemployment

After completing the scheduled classes and visit programmes, examinations were held in three steps.

Examination

There were three types of examination as follows:

- i) Class Room presentation through Power Point
- ii) Project Writing
- iii) Final written examination

The final examination was held on 9th September, 2025. The results were declared on 30th September, 2024 in the Certificate Award programme.

**Certificate Award Ceremony of the XXXVII Training Programme (Online):
Certificate Course on Basic Training on Science Communication and Media
Practice 2024-2025 and the release of Volume 3, Issue 2 of e-Paper *Bigyan Kahan*
on 30th September, 2024, via Google Meet**

The ISNA hosted its Certificate Award Ceremony for the XXXVII Training Programme: Certificate Course on Basic Training on Science Communication and Media Practice on the 30th September, 2024. This was a valedictory session for the 8-week-long online Certificate Course on Basic Science Communication and Media Practice. The ceremony was conducted in the evening through an online session and marked the launch of Volume 3, Issue 2 of the Bengali e-paper *Bigyan Kahan*, a publication for the dissemination of scientific knowledge amongst the public at large. The session was graced by the Chief Guest, Shri Biswajit Matilal, Vice-President, Corporate Communication at Birla Corporation Limited and a former senior journalist with *The Statesman*. His presence emphasized the importance of science communication and media practice in this information era. The session was anchored by ISNA alumni Urbi Rai and Tritisha Das and presided over by Dr. K. Muraleedharan, President of ISNA, and former Director of CSIR-CGCRI, Kolkata, India. Dr. Muraleedharan ensured online that both the scientific and communication aspects of the meeting were guided by able hands. The programme started at 3:30 p.m. with a Welcome Address by Shri Prasanta K. Bose, Chairman of the XXXVII Training Programme who warmly welcomed all participants and guests. He was succeeded by Professor Manas Chakrabarty, the Honorary Secretary of ISNA who made a few remarks mentioning the success of the participants and their training in furthering science communication. This was followed by the declaration of results of the online Basic Course by Dr. Amit Krishna De, Convener and Honorary Secretary of ISNA. Finally, it was time for the official launch of the Bengali e-paper '*Bigyan Kahan*', which continues to be a very effective medium for the dissemination of scientific knowledge and popularisation of science. Chief Guest Shri Biswajit Matilal addressed the meeting soon after the release. He shared with the audience his valuable experience in corporate communication and journalism. He told them how effectively media practices can bridge gaps between scientific communities and the public. Mr. Matilal found the naming of the Bengali e-paper '*Bigyan Kahan*' quite fascinating and befitting and appreciated such efforts on the part of Editors and contributors. As a part of the ceremony, Dr. Muraleedharan also delivered a Presidential Address. He expressed his views on this vital branch of science communication along with its importance to modern society and encouraged the participants of this endeavor to its field-specific application with renewed vigor and commitment. The closing event took place with Prof. Prabir Kumar Saha, Honorary Treasurer of ISNA, delivering the Vote of Thanks.

**XXXVII Training Programme (Online): Certificate Course on Basic Training on
Science Communication and Media Practice 2024-2025**
(24th July, 2024 to 9th September, 2024)

1st Week
5.00 p.m. to 7.00 p.m.

24/07/2024	Inauguration
25/07/2024	Basics of Science Communication Dr. Manas Pratim Das Programme Executive, All India Radio, Kolkata
26/07/2024	A B C of Science Communication Shri Prasanta K. Bose Chairman, XXXVII Training Programme, 2024-2025 Former Chief Media Advisor, ER, American Centre

2nd Week
5.00 p.m. to 7.00 p.m.

29/07/2024	Present History of Science Communication: In India Dr. Sabyasachi Chattopadhyay Department of History, University of Kalyani
30/07/2024	What it takes to Communicate Science Dr. T.V. Venkateswaran Former Scientist 'F', Vigyan Prasar, DST, Govt. of India
31/07/2024	Audio Script Writing Dr. Manas Pratim Das Programme Executive, All India Radio, Kolkata
01/08/2024	New Media Dr. Buroshiva Dasgupta School of Media Communications, Fine Arts & Design Sister Nivedita University
02/08/2024	Career Opportunities in Science Communication Dr. Amit Krishna De Honorary Secretary, ISNA; Convener, XXXVII Training Programme, 2024-2025; Former Advisor, ISCA
03/08/2024	Workshop on Science Writing Dr. Sima Mukhopadhyay, Science Communicator and and Shri Subhendu Chattopadhyay, Science Communicator

3rd Week

05/08/2024	History of Moon Mission Dr. K. Muraleedharan President, ISNA Former Director, CSIR-CGCRI, Kolkata; CSIR-Emeritus Scientist, C-MET, Thrissur and Environmental Journalism Dr. Debdut Ghosh Thakur former Chief Reporter, Anandabazar Patrika
06/08/2024	Digital Safety and Online Security Shri Joydeep Dasgupta Trainer - AAJA and GNI, Editor, News Sense
07/08/2024	Art of Interviewing Shri Prasanta K. Bose Chairman, XXXVII Training Programme, 2024-2025
08/08/2024	Preparation of Scientific Reports Dr. Minakshi De Former Professor of Surendranath College
09/08/2024	Acharya P.C. Ray Professor Manas Chakrabarty Honorary Secretary, ISNA and former Prof. of Chemistry & Emeritus Scientist, Bose Institute, Kolkata
10/08/2024	Workshop on Tabloid Making in English Shri Sukalyan Gain Assistant Editor, e-Papers: ' <i>Scientifica Communica</i> ' and ' <i>Bigyan Kahon</i> '

4th Week

12/08/2024	Project Writing Professor Syamal Chakrabarti Distinguished Science Writer, Formerly, Prof. of Chemistry, University of Calcutta
13/08/2024	Vaccines: Development and Application Professor Kaustubh Panda Department of Biotechnology and Dr. B.C. Guha Centre for Genetic Engineering & Biotechnology, University of Calcutta
14/08/2024	Importance and Need for Bee Conservation Shri Saikat Kumar Basu Department of Botany, Sunrise University Alwar, Rajasthan
15/08/2024	Traditional Media Dr. Amit Krishna De Honorary Secretary, ISNA; Convener, XXXVII Training Programme 2024-2025
16/08/2024	Constitutional Values, Scientific Temper and Society Professor Sankasashis Mukherjee Department of Nutrition, West Bengal State University
17/08/2024	Audio-visual Content Creation (Documentary Production) Mrs. Jhumur Datta Gupta Assistant Professor and HoD - Mass Communication and Journalism School of Media Communications Fine Arts & Design, Sister Nivedita University

5th Week

19/08/2024	Interview of Shri Subhabrata Chaudhuri Director, Birla Industrial & Technological Museum, Kolkata
20/08/2024	Finalisation of Presentation and Project Topics
21/08/2024	Interview of Dr. Satyabrata Chakrabarti General Secretary, The Asiatic Society, Kolkata
22/08/2024	How to cover Science in TV Dr. Snehasis Sur, Doordarshan Kendra Kolkata
23/08/2024	Ganga Pollution Professor Manas Chakrabarty Honorary Secretary, ISNA and Former Professor of Chemistry & Emeritus Scientist, Bose Institute, Kolkata and The Science Association of Bengal Dr. Subhabrata Roychaudhuri Founder Secretary, Science Association of Bengal
24/08/2024	Internet Radio Dr. Arnab Kumar Banerjee Head of the Department of Journalism & Mass Communication Jyotish Roy Vijaygargh College

6th Week

26/08/2024	Holiday (Janmashtami)
27/08/2024	Geographical Aspects of Information in Media Practice Professor Lakshminarayan Satpati Director, UGC-Human Resource Development Centre, University of Calcutta
28/08/2024	Science Society and Ethical Issues Prof. Arun Kumar Chakraborty HOD, DLIS, Netaji Subhas Open University (NSOU)
29/08/2024	Media Law and Ethics Dr. Ratul Datta Assistant Information Officer, Information & Cultural Affairs Dept., Govt. of W.B. and Guest Lecturer, University of Calcutta, Dept. of Journalism and Mass Communication
30/08/2024	Classroom Presentation
31/08/2024	Internet Radio Jyotish Roy Vijaygargh College, Kolkata

7th Week

02/09/2024	Transforming Higher Education: Unleashing the Potential of Digital Campuses Professor Dhrubajyoti Chattopadhyay Vice-President, ISNA and Vice-Chancellor, Sister Nivedita University, Kolkata
03/09/2024	Climate Refugee Mrs. Arpita Chakraborty Science Communicator
04/09/2024	Sustainable Tribal Livelihood Development Dr. Raktima Mukherjee Director, Indian Institute of Bio-Social Research and Development (IBRAD), Kolkata
05/09/2024	Last date of Project Submission
07/09/2024	Debate Competition Sub.: Application of AI in Professional Sectors will Cause Unemployment

8th Week

09/09/2024	Examination
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**List of Final Participants of XXXVII Training Programme (Online):
Certificate Course on Basic Training on Science Communication and
Media Practice 2024-2025**

1.	Nafisa Perveen , Rahmat Nagar Near Mazar Sharif, Burnpur Asansol Dist- Paschim Bardhaman Pin-713325, West Bengal. M: 8927999864 e-mail: nafisaperveen18@gmail.com
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9.	Suranjana Kundu , Vill Gogra, P.O. + P.S. Kotulpur, Dist Bankura, Pin – 722141, M: 9564957263 (W) / 6295812280, e-mail: imsuranjanakundu@gmail.com
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13.	Mouktik Sengupta , A5/5, Karunamoyee Housing Estate, Salt Lake, Sector 2, Kolkata-700091, M: 6289736564, e-mail: mouktik.sngpta@gmail.com

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XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025

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Shri Subhendu Chattopadhyay, *Science Communicator*

Dr. Arnab Kumar Banerjee, *Head, Department of Journalism and Mass Communication, Vijaygarh Jyotish Roy College, Kolkata*

Dr. Shankarashis Mukherjee, *Professor of West Bengal State University, Barasat, 24 Parganas*

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Dr. Minakshi De, *Former Professor of Surendranath College, Kolkata*

Dr. Sima Mukhopadhyay, *Science Communicator*

Shri Sukalyan Gain, *Research Scholar, University of Kalyani, Nadia*

Sk Jinnat Ali, *Science Communicator*

Mrs. Jhumur Datta Gupta, *Department of Mass Communication and Journalism, Sister Nivedita University, Kolkata*

Dr. Rupali Gangopadhyay, *Department of Chemistry, Sister Nivedita University, Kolkata*

Mrs. Malabika Sengupta, *School Teacher, D.J. Public School, Kolkata*

Shri Abhishek Chakraborty, *School Teacher, Pithapukuria F.P. Primary School, Kolkata*

Shri Krishnendu Rath, *College of Paramedical, Charnock Healthcare Institute, Kolkata*

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Prof. Tanusri Saha-Dasgupta, Senior Professor and Director, S.N. Bose National Centre for Basic Sciences, Kolkata
Dr. S.B. Roy, Chairman, Indian Institute of Bio-Social Research and Development (IBRAD), Kolkata
Prof. Raj Kumar Kothari, Vice-Chancellor, West Bengal State University, Barasat, North 24 Parganas
Prof. Abhay Karandikar, Secretary, Department of Science & Technology, New Delhi
Dr. Ranjana Aggarwal, Director, CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR), New Delhi
Professor Dhrubajyoti Chattopadhyay, Vice-Chancellor, Sister Nivedita University, Kolkata
Mr. M. Wahab, IPS (Retd.), Vice-Chancellor, Aliah University, Kolkata
Prof. (Dr) Sanjay Kumar, Vice-Chancellor, Amity University, Kolkata
Prof. Kajal De, Vice-Chancellor, Diamond Harbour Womens' University, South 24 Parganas
Prof. Sankar Gangopadhyay, Vice-Chancellor, Brainware University, Barasat, North 24 Parganas
Prof. Tapas Chakraborty, Vice-Chancellor, Maulana Abul Kalam Azad University of Technology, Kolkata
Prof. Indrajit Lahiri, Vice-Chancellor, Netaji Subhas Open University, Kolkata
Prof. Nirmalya Narayan Chakraborty, Vice-Chancellor, Presidency University, Kolkata
Prof. Ashutosh Ghosh, Vice-Chancellor, Rani Rashmoni Green University, Singur, Hooghly
Prof. Dilip Kumar Maiti, Vice-Chancellor, Biswa Bangla Biswabidyalay, Birbhum
Prof. Subrata Kumar Dey, Vice-Chancellor, Swami Vivekananda University, Barrackpore, North 24 Parganas
Dr. Biswajit Ghosh, Vice-Chancellor, The Neotia University, Sarisa, South 24 Parganas
Dr. John Felix Raj, S.J., Vice-Chancellor, St. Xavier's University, Kolkata
Prof. Shyam Sundar Dana, Vice-Chancellor, West Bengal University of Animal & Fishery Sciences, Kolkata
Prof. Amalendu Bhunia, Vice-Chancellor, University of Kalyani, Nadia
Prof. (Dr.) Suhrita Paul, Vice-Chancellor, The West Bengal University of Health Sciences, Kolkata
Prof. Vibha Tandon, Director, CSIR – Indian Institute of Chemical Biology, Kolkata
Dr. Subhabrata Roychoudhuri, Former Vice-Chancellor, Techno India University
Prof. B.V. Sharma, Director, Anthropological Survey of India and Director General, Raja Rammohan Roy Library Foundation

ORGANISING COMMITTEE

Chairperson

Shri Prasanta K. Bose, Former Chief Media Advisor, ER, American Center, Kolkata

Conveners

Dr. Amit Krishna De, Former Advisor and Executive Secretary, ISCA and Honorary Secretary, ISNA, Kolkata

Members

Professor Manas Chakrabarty, Former Professor of Bose Institute & Honorary Secretary, ISNA
Professor Prabir Kumar Saha, Former Professor of Bose Institute & Honorary Treasurer, ISNA
Professor Sudhendu Mandal, Former Director, National Library and senior Professor, Visva-Bharati and Editor-in-Chief, Science and Culture, ISNA
Dr. T. V. Venkateswaran, Former Scientist 'F', Vigyan Prasar, DST, Govt. of India
Professor Avijit Banerji, Former Head of the Department of Chemistry, University of Calcutta
Professor Lakshminarayan Satpati, Director, UGC-Human Resource Development Centre, University of Calcutta
Shri Pathik Guha, Ananda Bazar Patrika, Kolkata
Dr. Buroshiva Dasgupta, Professor of Sister Nivedita University, Kolkata
Professor (Mrs.) Julie Banerji, Former Khaira Professor, University of Calcutta, Kolkata
Professor Syamal Chakraborti, Former Professor of University of Calcutta, Kolkata
Dr. Manas Pratim Das, All India Radio, Kolkata
Dr. Sumitra Chaudhuri, President, Bangiya Bijan Parishad, Kolkata
Professor Devaprasanna Sinha, Former Director, CAD CAM consultants Pvt. Ltd, Kolkata
Dr Asish Das, Press Institute of India
Dr. Sabyasachi Chattopadhyay, Professor of University of Kalyani, Nadia
Shri Subhendu Chattopadhyay, Science Communicator
Dr. Arnab Kumar Banerjee, Head, Department of Journalism & Mass Communication, Vijaygarh Jyotish Roy College, Kolkata
Dr. Shankarashis Mukherjee, Professor of West Bengal State University, Kolkata
Mrs. Arpita Chakraborty, Science Communicator
Dr. Minakshi De, Former Professor of Surendra Nath College, Kolkata
Dr. Sima Mukhopadhyay, Science Communicator
Shri Sukalyan Gain, Research Scholar, University of Kalyani, Nadia
Sk Jinnat Ali, Science Communicator
Mrs. Jhumur Datta Gupta, Department of Mass Communication and Journalism, Sister Nivedita University, Kolkata
Dr. Rupali Gangopadhyay, Department of Chemistry, Sister Nivedita University, Kolkata
Mrs. Malabika Sengupta, School Teacher, D.J. Public School, Kolkata
Shri Abhishek Chakraborty, School Teacher, Pithapururia F.P. Primary School, Kolkata
Shri Krishnendu Rath, College of Paramedical, Charnock Healthcare Institute, Kolkata
Shri Debabrata Sur, Former Vice-President, Nicco Engineering Services Limited, Kolkata
Professor Saikat Kumar Basu, Department of Botany, Sunrise University, Alwar, Rajasthan



INDIAN SCIENCE NEWS ASSOCIATION (ISNA)

Organises

XXXVII TRAINING PROGRAMME (Online)

Certificate Course of **BASIC TRAINING** on Science Communication and Media Practice
Certificate Course of **ADVANCED TRAINING** on Science Communication and Media Practice

Information
Brochure

Organised by

INDIAN SCIENCE NEWS ASSOCIATION, KOLKATA

92, Acharya Prafulla Chandra Road, Kolkata-700 009
Phone : (033) 2350-2224

E-mail : editorial.scienceandculture@gmail.com, isnatraining@gmail.com
Website : scienceandculture-isna.org

with active support from
University of Calcutta
Sister Nivedita University
Vijaygarh Jyotish Ray College

INDIAN SCIENCE NEWS ASSOCIATION

The Indian Science News Association (ISNA) was founded by eminent scientists like **Acharya Prafulla Chandra Ray, Professor Meghnad Saha, Professor B. B. Ray, Professor D. S. Kothari** and other stalwarts. The purpose was to promote diffusion of knowledge laying special stress on the progress of scientific studies in India and abroad and advocating methodical application of science to problems of national regeneration. With this objective in view, the ISNA has been publishing a journal **SCIENCE AND CULTURE** for nearly last nine decades.

ISNA also organises seminars, symposia and training programmes on **Science Communication and Media Practice** to disseminate scientific knowledge and create awareness for the public.

GROOMING SCIENCE COMMUNICATORS

Present day India is a culmination of historical processes that date back to the Indus civilization and probably beyond. Scientific research has led to our progress and continues to ensure India's prominent position in the world of nations. However, it remains a great disadvantage for all of us that science, even today in this country, remains largely confined to laboratories and universities. The dissemination of scientific knowledge among the masses is an urgent necessity. The Indian Science News Association (ISNA) took on its shoulders the responsibility of grooming those who would take science to the masses. Since 1983 the organization has remained focused on conducting a certificate course on Science Communication and Media Practice. It has, however, been realised that in order to reach out to grassroot level, ISNA needs to spread its tentacles and start at the higher secondary streams. At this juncture the mind is fresh and is more open to adapting to new concepts on what is happening around. Time is changing and changing too fast with the advent of artificial intelligence (AI) and other technical tools, so large unthinkable.

With this in view it has been decided to open for the first time a Basic Course for students at the higher secondary level where they will be taught the basics of science communication through different modes like writing and editing. This will be followed by an Advanced Course where as per previous practice graduates will be taught about the above subjects.

Except for a few unavoidable breaks in between, ISNA's dedication has remained unflinching. **ISNA** has not only trained students but also produced books, videos, CDs, etc. that continue to serve as effective study material for the trainees. The course includes lectures, workshops, field visits, hands-on experience and orients the students in such a fashion that the learner gets a good exposure to the unfolding secrets of science and technology as well as gains the ability to communicate to the masses through print, audio-visual and social media.

OUTLINE OF COURSE CONTENTS

1. Communication and journalism
2. Media study
3. The art of writing and editing
4. Science communication through audio-visual media
5. The art of conducting Interview
6. Science and society and ethical issues
7. Science Communication through Social Media
8. Lectures on Eminent Indian Scientists and current topics of science
9. Classroom presentations, debates and workshops
10. Audio-visual documentary and Science Newsletter production
11. Interactive sessions, Projects
12. Artificial intelligence

ELIGIBILITY

For the Basic Course the Applicants should be HS or equivalent passed. For Advanced Course applicants should be either graduates in any stream or final year examinees. Those having interest in science writing / reporting in newspaper / periodicals / electronic media / social media will be preferred. Applicants will be selected after a written examination and interview. The decision of the Organizing Committee regarding selection will be final.

CERTIFICATE

Certificates will be issued at the end of the course to those who will qualify in the final examination, after attending at least 80% classes and completion of class room presentation, the project assigned and evaluated by the committee.

ADMISSION PROCEDURE

The application form & information brochure Price Rs. 100 for the course may be obtained from the office of the **Indian Science News Association**, 92, Acharya Prafulla Chandra Road, Kolkata - 700 009. The application form, duly filled in, should reach by **June 27, 2024**.

COURSE FEE (for Basic)

Names of the candidates selected for the course will be put up in the Notice Board and Website of the ISNA and they will be admitted on payment of the following course fees:

Individual	:	Rs. 2500.00
Sponsored candidate	:	Rs. 4000.00

Announcement for Advanced Course will follow soon

DURATION OF THE COURSE

The duration of the Basic Course is about six weeks, **July-August** & Advanced Course from **August-September**, 2024, online classes will be held five days a week, between 5.00 p.m. and 7.00 p.m. *including some Saturdays for workshops.*

MEMBERS OF THE COUNCIL OF THE INDIAN SCIENCE NEWS ASSOCIATION

President	:	Dr. K. Muraleedharan
Vice-Presidents	:	Professor S. K. Talapatra Professor (Mrs.) Julie Banerji Professor Bikas K. Chakrabarti Professor Dhruvajyoti Chattopadhyay Professor Basab Chaudhuri Dr. Anil K. Rajvanshi
Honorary Secretaries	:	Professor Manas Chakrabarty Dr. Amit Krishna De
Honorary Treasurer	:	Professor Prabir Kumar Saha
Editors Science and Culture	:	Professor Sudhendu Mandal, Editor-in-Chief Dr. Satyabrata Chakrabarti Professor Arnab Rai Choudhuri
Members	:	Professor Avijit Banerji Shri Prasanta K. Bose Dr. Manoj Kumar Chakrabarti Professor Syamal Chakrabarti Dr. Sabyasachi Chattopadhyay Dr. (Mrs.) Sumitra Chaudhuri Dr. Manas Pratim Das Dr. D. P. Duari Dr. S. P. Gon Chaudhuri Shri Pathik Guha Dr. Balaram Majumder Professor Partha P. Majumder Shri Sitendu Mandal Dr. Shankarashis Mukherjee Professor Devaprasanna Sinha Dr. D. K. Srivastava Professor (Mrs.) Bani Talapatra Dr. T.V. Venkateswaran



Indian Science News Association
SINCE 1935

INDIAN SCIENCE NEWS ASSOCIATION, KOLKATA

92, Acharya Prafulla Chandra Road, Kolkata - 700009

Certificate of Participation

This is to certify that.....

participated in the *XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025*, organised by Indian Science News Association and held on June 24 to September 9, 2024 and that he / she is awarded this certificate on his / her satisfactory performance in the course as well as in the examination.

Prof. Manas Chakrabarty
Honorary Secretary, ISNA

Dr. Amit Krishna De
Convener

Shri Prasanta K. Bose
Chairman

XXXVII Training Programme (Online): Certificate Course on
Basic Training on Science Communication and Media Practice 2024-2025
and
Honorary Secretary, ISNA

Date: 30/09/2024
Place: Kolkata



Indian Science News Association
SINCE 1935

INDIAN SCIENCE NEWS ASSOCIATION, KOLKATA

92, Acharya Prafulla Chandra Road, Kolkata - 700009

Certificate of Merit

This is to certify that.....

participated in the *XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025*, organised by Indian Science News Association and held on June 24 to September 9, 2024 and that he / she is awarded this certificate of merit on his / her satisfactory performance in the course as well as in the examination.

Prof. Manas Chakrabarty
Honorary Secretary, ISNA

Dr. Amit Krishna De
Convener

Shri Prasanta K. Bose
Chairman

XXXVII Training Programme (Online): Certificate Course on
Basic Training on Science Communication and Media Practice 2024-2025
and
Honorary Secretary, ISNA

Date: 30/09/2024
Place: Kolkata

XXXVII Training Programme (Online): Certificate Course on Advance Training on Science Communication and Media Practice 2024-2025

Outline of Course Contents

1. Media study and Communication
2. Creative writing and Editing
3. Science communication through audio-visual media (Radio, TV, Science Films, Photography)
4. Script writing and conducting Interview
5. Online writing and content development
6. Science Communication through Social Media (You tube, Facebook, Twitter, Instagram)
7. Internet, Cybercrime and Ethical Issues
8. Lectures on some current topics of science with interactive sessions.
9. Workshop on Audio-visual documentary and Science Tabloid production.
10. Artificial intelligence and Chat GPT
11. Mock sessions, daily assignments and assessments.
12. Practice communicating (Classroom presentations, projects debate, group discussion, slogan and workshop)

Eligibility

For the Advanced Course the Applicants should be graduates / final semester examinees in any stream. Those having interest in science writing / reporting in newspaper / periodicals / electronic media / social media will be preferred. Applicants will be selected after a written examination and interview. The decision of the Organizing Committee regarding selection will be final.

Certificate

Certificates will be issued at the end of the course to those who will qualify in the final examination, after attending at least 80% classes and completion of class room presentation, the project assigned and evaluated by the committee.

Admission Procedure

The application form & information brochure Price Rs. 100 for the course may be obtained by e-mail from the office of the **Indian Science News Association**, 92, Acharya Prafulla Chandra Road, Kolkata - 700 009. The application form, duly filled in, should reach by **December 20, 2024**.

Duration of the Course

The duration of the Basic Course is about six weeks, **January-February, 2025**, online classes will be held five days a week, between 5.00 p.m. and 7.00 p.m. (including some Saturdays for workshops).

A Report on the Activities of the XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025

Inauguration

Indian Science News Association (ISNA) recently launched a Certificate Course on Advanced Training on Science Communication and Media Practice for the 2024-2025 session. The inaugural ceremony for this programme was conducted online on 5th February, 2025.

The programme was graced by Dr. Saranjit Singh, Vice-Chancellor of KIIT, Bhubaneswar, Shri Sankar Bhadra, Chief Editor of Karmakshetra, Dr. K. Muraleedharan, President of ISNA, Prof. Manas Chakrabarty, Honorary Secretary, ISNA, Dr. Amit Krishna De, Honorary Secretary, ISNA and Convener of the Training Programme, and Shri Prasanta K. Bose, Chairman for the Training Programme along with other dignitaries. The online meeting was attended by all the current students, as well as former students and coordinators. The event was anchored by Shri Saikat Kumar Basu, a former student of ISNA and a journalist.

Shri Amit Krishna De started the event by welcoming everyone. He briefly highlighted the importance of science communication in today's world and how modern digital tools can considerably boost science communication by allowing scientists to engage in a larger audience through interactive elements. Shri Prasanta K. Bose also expressed similar ideas. *"In today's world, it is absolutely important to learn the art of video making. It can make science communication extremely visually appealing and interactive."*, he explained. Prof. Manas Chakrabarty, however, focused on the need of traditional methods of science communication. Interestingly, there have been recent efforts to combine scientific information with Patachitra, an ancient story-telling art form from Orissa. Students enrolled in this year's scientific communication programme were excited to explore this incredibly interwoven world of science and art.

Shri Sankar Bhadra shared his experience as a journalist and science news writer. He briefly discussed how effective science communication influenced the lives of the fishermen in Digha, West Bengal. *"I hope the course will enable our students to create such positive impacts in our society"*, he mentioned. Dr. Saranjit Singh, Vice-Chancellor, KIIT also shared his views on the need of science communication. As a Vice-Chancellor of a modern University, he mentioned his willingness to conduct science communication workshops in tandem with ISNA in his University. Dr. Singh offered to lend his skills and expertise from time to time to make the course more valuable to the students.

The last speaker of the day was Dr. K. Muraleedharan. *“The training programme is being successfully conducted for 37 years. That definitely proves its importance”*, he mentioned. He shared his optimism regarding the future of science communication in India. Additionally, he urged the students to fully engage with the programme’s lectures and workshops that will be held during the next six weeks of the programme.

Finally, Vote of Thanks was delivered by Mrs. Arpita Chakraborty, one of the coordinators of the programme.

Brief Report on the Training Imparted

Classes

Nine students were enrolled in the course.

Thirty two theoretical classes were held during this period.

The classes started form 6th February, 2025 and ended with a final examination held on 17th March, 2025 (via Google Meet).

Workshops

Eight workshops were arranged on the following topics:

1.	08/02/2025	Science Writing Evaluation	Tuhin Sajjad Sk Shri Saikat Kumar Basu Mrs. Arpita Chakraborty	via Google Meet
2.	23/02/2025	Science Tabloid Making	Shri Prasanta K. Bose Dr. Arnab Kumar Banerjee Dr. Sima Mukhopadhyay Shri Sukalyan Gain Ms. Tanushree Dey	via Google Meet
3.	24/02/2025	Science Communication through Audio Media and Internet Radio	Dr. Arnab Kumar Banerjee Dr. Sima Mukhopadhyay Ms. Ambalika Roy Shri Rajjyeswar Saha Ms. Tanushree Dey	via Google Meet

Visits Museums, Media Houses and Scientific Institutes

During this period two visits were arranged as follows:

- i) National Library, Kolkata
- ii) Indian Museum, Kolkata

Meet the Scientists

To acquire practical knowledge as part of the course, to meet and take interview following person (via Google Meet).

- i) Shri Sankar Bhadra, Chief Editor, Karmakshetra

The students participated in the following programmes:

- i) Celebration of National Science Day 2025 at N.R. Sen Auditorium, University of Calcutta.
- ii) D.M. Bose Memorial Lecture at N.R. Sen Auditorium, University of Calcutta.

Examination

There were three types of examination as follows:

- i) Class Room presentation through Power Point
- ii) Project Writing
- iii) Final written examination

The final examination was held on 17th March, 2025. The results were declared on 29th April, 2025 in the Certificate Award programme.

Certificate Award Ceremony of the XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025 on 29th April, 2025

Certificate Award Ceremony to students of the XXXVII Training Programme: Certificate Course on Advanced Training on Science Communication and Media Practice on the 29th April, 2025 at 5.00 p.m. in the N.R. Sen Auditorium, University of Calcutta, Rashbehari Siksha Prangan, Kolkata 700009. The welcome address was delivered by Shri Prasanta K. Bose, Chairman of the XXXVII Training Programme 2024-2025. The programme was anchored by Dr. Amit Krishna De, Honorary Secretary, ISNA and Convener, XXXVII Training Programme 2024-2025, who also explained the outline of the course in details. Prof. Manas Chakrabarty, Honorary Secretary of ISNA, welcomed the participants and stated about the history of the genesis of ISNA and also on the fundamental activities and history of publishing its mouthpiece journal *Science and Culture*. Dr. Swati Nandi Chakraborty, Environment Consultant of Cantonment Board (Govt. of India), Chief Editor, International Journal of Bioinformatics & Biological Sciences, Member, Environment Committee – BNCCI, President, Future of nature Foundation, State Chair, (WB) Circular Economy, WICCI and UNESCO Fellow graced the occasion as a Chief Guest. The programme presided over by Professor Bikas K. Chakrabarti, President, ISNA. Two categories of certificates-Merit and Participation-were distributed to the successful participants. Professor Prabir Kumar Saha, Honorary Treasurer, ISNA, concluded the program with a vote of thanks.

**XXXVII Training Programme (Online): Certificate Course on Advanced
Training on Science Communication and Media Practice 2024-2025**

(5th February, 2025 to 17th March, 2025)

5.30 p.m. to 7.00 p.m.

1st Week

05/02/2025	Inauguration
06/02/2025	Introduction to Course Shri Prasanta K. Bose , Chairman, XXXVII Training Programme, 2024-2025 Former Chief Media Advisor, ER, American Centre and Dr. Amit Krishna De , Honorary Secretary, ISNA; Convener, XXXVII Training Programme 2024-2025; Former Advisor, ISCA
07/02/2025	Science Writing Tuhin Sajjad Sk , Science Communicator and Editorial Assistant, e-Papers: ' <i>Scientifica Communica</i> ' and ' <i>Bigyan Kahon</i> '
08/02/2025	Science Writing Evaluation Tuhin Sajjad Sk , Science Communicator and Editorial Assistant, e-Papers: ' <i>Scientifica Communica</i> ' and ' <i>Bigyan Kahon</i> ' and Shri Saikat Kumar Basu , Department of Botany, Sunrise University, Alwar, Rajasthan and Mrs. Arpita Chakraborty , Science Communicator

2nd Week

10/02/2025	New Media and its Relevance Dr. Buroshiva Dasgupta , School of Media Communications, Fine Arts & Design, Sister Nivedita University
11/02/2025	Mobile Journalism Shri Joydeep Das Gupta , Trainer - AAJA and GNI, Editor, News Sense
12/02/2025	Documentary Making Mrs. Jhumur Datta Gupta , Assistant Professor and HoD - Mass Communication and Journalism, School of Media Communications, Fine Arts & Design, Sister Nivedita University
13/02/2025	Making of Mobile Film (Reels, Shorts, etc.) Shri Joydeep Das Gupta , Trainer - AAJA and GNI, Editor, News Sense
14/02/2025	Script Writing Mrs. Jhumur Datta Gupta , Assistant Professor and HoD - Mass Communication and Journalism, School of Media Communications Fine Arts & Design, Sister Nivedita University

3rd Week

17/02/2025	Strategies for Communicating Science (PART 1) Dr. T.V. Venkateswaran , Former Scientist 'F', Vigyan Prasar, DST, Govt. of India
18/02/2025	Strategies for Communicating Science (PART 2) Dr. T.V. Venkateswaran , Former Scientist 'F', Vigyan Prasar, DST, Govt. of India
19/02/2025	Visit to National Library at 3.00 p.m.
20/02/2025	Geopolitics of Climate Change Shri Saikat Kumar Basu , Department of Botany, Sunrise University, Rajasthan
21/02/2025	Art of Science Communication with Special Reference to documentary films Dr. Nimesh Kapoor , Scientist & Science Communicator, Birbal Sahni Institute of Palaeosciences, Lucknow and former Scientist, Vigyan Prasar, DST, Govt. of India
22/02/2025	AI's Transformative Impact on Science Documentary Filmmaking: Innovations, Challenges, and Future Trends Dr. Rajeev Kumar Panda , Associate Professor and Associate Dean, School of Mass Communication, KIIT Deemed to be University

4th Week

23/02/25	Workshop on 'Science Tabloid Making' Conducted by: Dr. Arnab Kumar Banerjee , HoD, Department Journalism & Mass Communication, Vijoygarh Jyotish Ray College Speakers: Shri Prasanta K. Bose , Chairman, XXXVII Training Programme, 2024-2025 Dr. Sima Mukhopadhyay , Science Communicator Shri Sukalyan Gain , Assistant Editor, e-Papers: ' <i>Scientifica Communica</i> ' and ' <i>Bigyan Kahon</i> ' Ms. Tanushree Dey , Editorial Assistant, e-Papers: ' <i>Scientifica Communica</i> ' and ' <i>Bigyan Kahon</i> '
24/02/25	Workshop on 'Science Communication through Audio Media and Internet Radio' Conducted by: Dr. Arnab Kumar Banerjee , HoD, Department Journalism & Mass Communication, Vijoygarh Jyotish Ray College Speakers: Dr. Sima Mukhopadhyay , Science Communicator Ms. Ambalika Roy , Former Student, ISNA Shri Rajjyeswar Saha , Vivekananda College Ms. Tanushree Dey , Editorial Assistant, e-Papers: ' <i>Scientifica Communica</i> ' and ' <i>Bigyan Kahon</i> ' Ms. Nabina Roy Majumder , Radio Kolkata
25/02/25	Science Communication through folk media (Thrust Area: Puppetry) Dr. Sima Mukhopadhyay , Science Communicator
26/02/25	Discussion with Assignment Shri Prasanta K. Bose , Chairman, XXXVII Training Programme, 2024-2025 Dr. Sima Mukhopadhyay , Science Communicator Dr. Arnab Kumar Banerjee , HoD, Department Journalism & Mass Communication, Vijoygarh Jyotish Ray College
27/02/25	Two Unsung Heroes of Indian Science Professor Manas Chakrabarty , Honorary Secretary, ISNA

	Former Professor of Chemistry & Emeritus Scientist, Bose Institute, Kolkata
28/02/25	Celebration of National Science Day 2025 at 5.00 p.m. Venue: N.R. Sen Auditorium, University of Calcutta, Rashbehari Siksha Prangan, 92, Acharya Prafulla Chandra Road, Kolkata – 700 009
01/03/205	AI Application in Science Communication Particularly Radio Dr. Manas Pratim Das , Programme Executive, All India Radio

5th Week

03/03/25	Professor Gautam Gangopadhyay, Department of Physics, University of Calcutta delivered the D.M. Bose Memorial Lecture
04/03/25	Concept of Green Buildings Ms. Ina Bose , Academic and Communications Consultant, Former Director Industry Relations and President of Institution's Innovation Council of Sister Nivedita University
05/03/25	India's Solar System Exploration Missions Dr. K. Praveen Kumar , Deputy Director, Space Science Programme, ISRO HQ
06/03/25	Meet: Shri Sankar Bhadra , Chief Editor, Karmakshetra
07/03/25	Classroom Presentation 1 <i>Judges:</i> Shri Siddhartha Sankar Mondal, Shri Krishnendu Rath, Dr. Junaid Jibran Jawed, Shri Arnab Kanti Dhara
08/03/25	Bangiya Bigyan Parishad and Professor S.N. Bose Professor Gautam Gangopadhyay , Secretary, Bangiya Bigyan Parishad And Department of Physics, University of Calcutta

6th Week

10/03/25	Biography of Scientists Professor Syamal Chakrabarti , Distinguished Science Writer Formerly, Department of Chemistry, University of Calcutta
11/03/25	Classroom Presentation 2
12/03/25	Groundwater Pollution in West Bengal Dr. Krishnendu Das , Vice-Chairperson, National Environmental Science Academy, W.B. Chapter
13/03/25	OFF
14/03/25	Holiday (Dolyatra)
15/03/25	Communicating Science in Television Dr. Snehasis Sur , Doordarshan Kendra Kolkata

7th Week

17/03/25	Examination
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**List of Final Participants of XXXVII Training Programme (Online):
Certificate Course on Advanced Training on Science Communication
and Media Practice 2024-2025**

1.	Ms. Esha Pandit, 1D/901, Rina Mandal Road, Eastern Metropolitan Bypass, North Purbachal, Haltu, Kolkata – 700078, M: 9804491022, e-mail: eshaacademic@gmail.com
2.	Ms. Rupa Basu, Golf Green Urban Complex, Phase - 4 A, WIB(R) - 4/5, Kolkata – 700095, M: 9143124328, e-mail: rupa.basu7@gmail.com
3.	Shri Kingshuk Roy, VI-Amtala Adarshya Pally, P.O. Kanyanagar, P.S. Bishnupur, Dist South-24 Pgs, Pin-743398 M: 6290576557, e-mail: meetkingshukroy1980@gmail.com
4.	Shri Sulagno Samanta, 209, B.M. Saha Road, Hindmotor, Hooghly, Pin-712233, M: 8017329486, e-mail: samantabibeksulagno@gmail.com
5.	Ms. Priyanka Sau, 2/H/10, Ghore Bibi Lane, P.S. Phoolbagan, P.O. Kankurgachi, Kolkata – 700054, M: 8479925397, e-mail: saupriyanka66@gmail.com
6.	Shri Nabanna Mondal, Vill + Post: Hantal, P.S. J.B. Pur, Dist - Howrah, Pin – 711404, M: 9932366321 / 9474150914, e-mail: nmondal.physics@gmail.com
7.	Shri Bipradas Ghosh, 26/10, Dhania Para Road, N-Anandapuri, Barrackpur, P.O. N.C. Pukur, Dist - North 24 Pgs, Pin-700122, M: 9477447825, e-mail: bipradasg54@gmail.com
8.	Shri Nihar Ranjan Majumder, Ananda Pally, P.O. Pansila, Kolkata - 700112, Dist - North 24 Pgs, West Bengal, M: 9830291098, e-mail: nihar.majunder@yahoo.com

**MEMBERS OF THE COUNCIL OF THE
INDIAN SCIENCE NEWS ASSOCIATION**

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XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025

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INDIAN SCIENCE NEWS ASSOCIATION (ISNA)

Organises

XXXVII TRAINING PROGRAMME (Online):

Certificate Course of **ADVANCED TRAINING** on Science Communication and Media Practice

Information
Brochure

Organised by

INDIAN SCIENCE NEWS ASSOCIATION

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Phone : (033) 2350-2224

e-mail : editorial.scienceandculture@gmail.com, isnatraining@gmail.com
Website : scienceandculture-isna.org

with active support from
University of Calcutta
Sister Nivedita University
Vijaygarh Jyotish Ray College

INDIAN SCIENCE NEWS ASSOCIATION

The Indian Science News Association (ISNA) was founded by eminent scientists like **Acharya Prafulla Chandra Ray, Professor Meghnad Saha, Professor B. B. Ray, Professor D. S. Kothari** and other stalwarts. The purpose was to promote diffusion of knowledge laying special stress on the progress of scientific studies in India and abroad and advocating methodical application of science to problems of national regeneration. With this objective in view, the ISNA has been publishing a journal **SCIENCE AND CULTURE** for nearly last nine decades.

ISNA also organises seminars, symposia and training programmes on **Science Communication and Media Practice** to disseminate scientific knowledge and create awareness for the public.

GROOMING SCIENCE COMMUNICATORS

Present day India is a culmination of historical processes that date back to the Indus civilization and probably beyond. Scientific research has led to our progress and continues to ensure India's prominent position in the world of nations. However, it remains a great disadvantage for all of us that science, even today in this country, remains largely confined to laboratories and universities. The dissemination of scientific knowledge among the masses is an urgent necessity. The Indian Science News Association (ISNA) took on its shoulders the responsibility of grooming those who would take science to the masses. Since 1983 the organization has remained focused on conducting a certificate course on Science Communication and Media Practice. It has, however, been realised that in order to reach out to grassroot level, ISNA needs to spread its tentacles and start at the higher secondary streams. At this juncture the mind is fresh and is more open to adapting to new concepts on what is happening around. Time is changing and changing too fast with the advent of artificial intelligence (AI) and other technical tools, so large unthinkable.

With this in view it has been decided to open for the first time a Basic Course for students at the higher secondary level where they will be taught the basics of science communication through different modes like writing and editing. This will be followed by an Advanced Course where as per previous practice graduates will be taught about the above subjects.

Except for a few unavoidable breaks in between, ISNA's dedication has remained unflinching. **ISNA** has not only trained students but also produced books, videos, CDs, etc. that continue to serve as effective study material for the trainees. The course includes lectures, workshops, field visits, hands-on experience and orients the students in such a fashion that the learner gets a good exposure to the unfolding secrets of science and technology as well as gains the ability to communicate to the masses through print, audio-visual and social media.

OUTLINE OF COURSE CONTENTS

1. Media study and Communication
2. Creative writing and Editing
3. Science communication through audio-visual media (Radio, TV, Science Films, Photography)
4. Script writing and conducting Interview
5. Online writing and content development
6. Science Communication through Social Media (You tube, Facebook, Twitter, Instagram)
7. Internet, Cyber crime and ethical issues
8. Lectures on some current topics of science with interactive sessions
9. Workshop on Audio-visual documentary and Science Tabloid production.
10. Artificial intelligence and Chat GPT
11. Mock sessions, daily assignments and assessments.
12. Practice communicating (Classroom presentations, projects debates, group discussion, slogan and workshops)

ELIGIBILITY

For Advanced Course applicants should be graduates / final semester examinees in any stream. Those having interest in science writing / reporting in newspaper / periodicals / electronic media / social media will be preferred. Applicants will be selected after a written examination and interview. The decision of the Organizing Committee regarding selection will be final.

CERTIFICATE

Certificates will be issued at the end of the course to those who will qualify in the final examination, after attending at least 80% classes and completion of class room presentation, the project assigned and evaluated by the committee.

ADMISSION PROCEDURE

The application form & information brochure Price Rs. 100 for the course may be obtained by e-mail from the office of the **Indian Science News Association**, 92, Acharya Prafulla Chandra Road, Kolkata - 700 009. The application form, duly filled in, should reach by **December 20, 2024**.

COURSE FEE (for Basic)

Names of the candidates selected for the course will be put up in the Notice Board and Website of the ISNA and they will be admitted on payment of the following course fees:

Individual	:	Rs. 3500.00
Sponsored candidate	:	Rs. 5000.00

DURATION OF THE COURSE

The duration of the Advanced Course is about six weeks, from January-February, 2025, online classes will be held five days a week, between 5.00 p.m. and 7.00 p.m. (including Saturdays for workshops).

MEMBERS OF THE COUNCIL OF THE INDIAN SCIENCE NEWS ASSOCIATION

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Indian Science News Association
SINCE 1935

INDIAN SCIENCE NEWS ASSOCIATION, KOLKATA

92, Acharya Prafulla Chandra Road, Kolkata - 700009

Certificate of Participation

This is to certify that.....

participated in the *XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025*, organised by Indian Science News Association and held from February 5th to March 17, 2025 and that he / she is awarded this certificate on his / her satisfactory performance in the course as well as in the examination.

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Honorary Secretary, ISNA

Dr. Amit Krishna De
Convener

Shri Prasanta K. Bose
Chairman

XXXVII Training Programme (Online): Certificate Course on
Advanced Training on Science Communication and Media Practice 2024-2025

and

Honorary Secretary, ISNA

Date:
Place: Kolkata



Indian Science News Association
SINCE 1935

INDIAN SCIENCE NEWS ASSOCIATION, KOLKATA

92, Acharya Prafulla Chandra Road, Kolkata - 700009

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and

Honorary Secretary, ISNA

Date:
Place: Kolkata

ডাক্তার মানেই তো...

শিক্ষা আনে চেতনা। মানব সভ্যতার বিকাশে চেতনার খুব প্রয়োজন। একটু গভীরে গিয়ে বললে বলতে হয় বিজ্ঞান ও যুক্তিবাদী চেতনার প্রয়োজন। বিজ্ঞান ও যুক্তিবাদী চেতনা আসে প্রকৃত বিজ্ঞান শিক্ষা থেকে।

বিজ্ঞান একটা পদ্ধতির নাম, যা শুধু জানলে হয় না, জীবনে অভ্যাস করতে হয়। এখানে সমাজ বিজ্ঞানেরও বড় ভূমিকা রয়েছে। প্রকৃত বিজ্ঞান শিক্ষার জন্য পরিবার ও সমাজেরও কিছু কর্তব্য থাকে।

কিন্তু আমরা যুগে যুগে দেখেছি প্রকৃত বিজ্ঞান শিক্ষা ও যুক্তিবাদী চিন্তার উল্টো পথে হেঁটেছে সমাজ। তবে এর ব্যতিক্রমও আছে। যার সংখ্যা খুবই কম। যুক্তিবাদী চিন্তার মানুষজন সংখ্যালঘু হলেও তাদের জেদ আর ঐকান্তিক চেষ্টি সমাজকে নাড়া দিয়েছে।

আজ থেকে প্রায় দেড়শো বছর আগে ভারতবর্ষ তথা এশিয়ার প্রথম মহিলা চিকিৎসক হয়েছিলেন কাদম্বিনী গাঙ্গুলী (বসু)। তখন যা সমাজব্যবস্থা ছিল তাতে এই কাজটা মোটেই সহজ ছিল না। যেখানে বেশিরভাগ মেয়েরা ছিল অন্দরমহলে বন্দী, সেখানে পুরুষদের সঙ্গে কাঁধে কাঁধ মিলিয়ে চিকিৎসা করা যে একটা ঐতিহাসিক সিদ্ধান্ত এটা মানতেই হবে। এব্যাপারে তাকে যোগ্য সহযোগিতা করেছিলেন তাঁর বিজ্ঞানমনস্ক ও যুক্তিবাদী স্বামী দ্বারকানাথ গাঙ্গুলী।

সাম্প্রতিক সমীক্ষা জানাচ্ছে ডাক্তারিতে ভর্তি সর্বভারতীয় পরীক্ষায় ছেলেদের তুলনায় মেয়েদের পাশের হার বেশি। ডাক্তার কাদম্বিনী গাঙ্গুলী ও দ্বারকানাথ গাঙ্গুলীর এই লড়াই সমাজের প্রতিকূলতাকে কাটিয়ে পেশাসনকে নাড়া দিতে পেরেছিল। তাই আজ সমাজ মেনে নিয়েছে। সংখ্যাগরিষ্ঠ মানুষ মহিলা ডাক্তার বলেন না, ভাবেনও না। ডাক্তারের কোনো জেভার নেই। এখনো মানুষ এই পেশাকে সম্মানের সঙ্গে দেখেন। কোথাও গিয়ে তারা উপলব্ধি করেন ডাক্তার মানেই তাদের জীবন রক্ষক।

মানুষ যখন এই পেশাকে সম্মানের সঙ্গে দেখেন, তখন ডাক্তারদের দায়িত্ব বেড়ে যায়। বেশিরভাগ ডাক্তারই সেই দায়িত্ব পালন করেন। সেজন্যই সমাজব্যবস্থা এখনও টিকে আছে।

ডাক্তাররা যখন সমাজের প্রতি দায়বদ্ধ, সমাজেরও কিছু দায়িত্ব থেকে যায় ডাক্তারদের প্রতি। এই পরস্পরের দায়িত্ব আসে চেতনা থেকে। এক ধাপ এগিয়ে বললে বলতে হয় বিজ্ঞানমনস্কতা ও যুক্তিবাদী চেতনা থেকে। এটাই প্রকৃত বিজ্ঞান শিক্ষার ধর্ম।

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ডঃ আর. জি. কর: এক রেনেসাঁ পুরুষ মানস চক্রবর্তী

কলকাতার বেলগাছিয়ায় অবস্থিত আর. জি. কর মেডিক্যাল কলেজ ও হাসপাতাল এক সাম্প্রতিক ঘটনার জেরে খবরের শিরোনামে। শুধু পশ্চিমবঙ্গ নয়, ভারত ও সারা বিশ্বের অনেক দেশ এই নামের সঙ্গে পরিচিত। কিন্তু কতজন এই হাসপাতালের প্রতিষ্ঠাতা ডঃ রাখা গোবিন্দ কর বা আর. জি. করের সম্বন্ধে জানেন? নতুন প্রজন্মের ছেলেমেয়েদের কাছে উনিশ শতকের এই রেনেসাঁ পুরুষের কার্যকলাপ জানাবার জন্য এই ধবন্ধের উপস্থাপনা।

আর. জি. কর হাওড়ায় সাঁতারগাছির কাছে বেতড়ে জন্মগ্রহণ করেন ১৮৫২ (তাঁর একজন বংশধরের মত অনুযায়ী ১৮৫০) সালের ২৩শে আগস্ট। তাঁর পিতা ডঃ দুর্গাদাস কর একজন প্রখ্যাত চিকিৎসক ছিলেন। হিন্দু স্কুল থেকে প্রবেশিকা পরীক্ষায় উত্তীর্ণ হওয়ার পর আর. জি.

কর প্রথমে ১৮৬৯ সালে ও পরে আবার ১৮৮০ সালে কলকাতা মেডিক্যাল কলেজে ভর্তি হন। ১৮৮৩ সালে এল.এম.এফ. পাশ করার পর উচ্চশিক্ষার জন্য তিনি স্কটল্যান্ডে যান। সেখানকার এডিনবরা বিশ্ববিদ্যালয় থেকে এল.আর.সি.পি. ও এল.এম. ডিপ্লোমা অর্জন করে দেশে ফিরে আসেন।

এরপর তিনি কলকাতায় থাইভেট থ্যাটারিস শুরু করেন, কিন্তু গরীব রোগীদের তিনি বিনা পারিশ্রমিকে চিকিৎসা করতেন। সেই সময় চিকিৎসা বিদ্যা ও অন্যান্য সংশ্লিষ্ট বিষয়ে ভালো বাংলা পাঠ্য বইয়ের খুবই অভাব ছিল। ছাত্রদের এই অসুবিধা দূর করার জন্য তিনি বাংলায় চিকিৎসা বিদ্যার উপর সহজবোধ্য বই লিখতে শুরু করেন এবং কিছু বই অনুবাদও করেন।

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পার্কিনসনস ডিজিজ নিরাময়ের নতুন পদ্ধতি প্রশান্ত কুমার বসু



বরং বিগত ২০০০ সাল থেকে এই রোগের প্রাদুর্ভাব প্রায় ১০০ গুণ বেড়ে গিয়েছে। বিশেষ করে নিম্ন ও মাঝারি আয় বিশিষ্ট দেশগুলোতে যেখানে উপযুক্ত চিকিৎসার ব্যবস্থা নেই বা অত্যন্ত ব্যয়বহুল বলে বিশ্ব স্বাস্থ্য সংস্থা এক সাম্প্রতিক প্রতিবেদনে জানিয়েছে।

“না সারে না। এ রোগ সারবার নয়,” বেশ জোরের সঙ্গে বললেন ডাক্তারবাবু। “তবে ওষুধপত্র দিয়ে আমরা কিছুটা দমিয়ে রাখতে পারি।”

আসলে ওর হাতটা বেশ কিছুদিন ধরে কাঁপছিল। প্লেটটা হাত থেকে ধায় পড়ে যাওয়ার অবস্থা। রাত্তায় বেরোলে চলাফেরায় কেমন যেন একটা অস্বস্তি, একরকম একটা জড়তা। এ সব দেখে শুনেই ডাক্তারবাবুর কাছে যাওয়ার প্রয়োজন হয়ে পড়েছিল।

এ রোগ যে সারে না এ কথা বিখ্যাত স্নায়ু রোগ বিশেষজ্ঞ ডঃ শ্রীনিবাস ও স্বীকার করলেন। আসলে এই কঠিন রোগটি একটি “স্নো ডিজেনারেশন নিউরোলজিক্যাল ডিজঅর্ডার।” ক্রমাগত অবস্থার অবনতি হতে থাকে। রোগের লক্ষণগুলো বাড়তে থাকে। উপরোক্ত লক্ষণগুলো ছাড়াও কথাবার্তা জড়িয়ে যায়। স্মরণ শক্তি কমে যায়। ব্যথা বেদনাও বাড়তে থাকে। পারিবারিক ইতিহাস যদি থাকে, তাহলে তো কথাই নেই।

বিশ্ব স্বাস্থ্য সংস্থার পরিসংখ্যান অনুযায়ী বিগত ২০১৯ সালে সারা দুনিয়া জুড়ে পার্কিনসনসে আক্রান্ত রোগীর সংখ্যা ছিল সাড়ে আট কোটিরও বেশি। অবস্থার ক্রমাবনতি হওয়ায় এঁদের মধ্যে ৩.২৯.০০০ জনের মৃত্যু হয়। পরিস্থিতির উন্নতি তো হয়ইনি।

আমাদের ভারতবর্ষের অবস্থাও এই পরিধিক্ষিতে বিশেষ ভালো নয়। একটি রিপোর্ট বলছে ভারতে প্রায় ৭ কোটি লোক এই রোগে আক্রান্ত এবং প্রতি বছর প্রায় ১০ লক্ষ লোক এই রোগের আক্রমণের মুখে পড়ছেন। পশ্চিমী দুনিয়ার তুলনায় এই পরিস্থিতি হয়তো খুব খারাপ নয়। তবে ভারতীয়দের ক্ষেত্রে একটি মুকিল হল তাঁরা এই রোগের কথা লুকিয়ে রাখতে চান। সমস্যার কথা বলতে চান না। লজ্জা বা ভয় পান বলে এক গবেষক জানিয়েছেন।

এমনিতেই আমাদের মস্তিষ্ক খুবই জটিল একটি অঙ্গ যা আমাদের শারীরিক কার্যকলাপ সামগ্রিক ভাবে নিয়ন্ত্রণ করে। বয়স বাড়ার সঙ্গে সঙ্গে স্নায়ু কোষের সংখ্যা কমেতে থাকে। কমে যেতে থাকে ডোপামিন নামে একটি হরমোনের পরিমাণও। তখনই পার্কিনসনসের উৎপত্তি শুরু হয়। তবে এখন কমবয়সীদের মধ্যেও এই রোগ দেখা যাচ্ছে। পরিসংখ্যান অনুযায়ী মেয়েদের তুলনায় ছেলেরা এ রোগে বেশি আক্রান্ত হন।

ঠিক এই সময় স্নায়ু চিকিৎসকেরা এমডোপা বা লেভোডোপা নামের এক ধরনের ওষুধ রোগীদের জন্য দিয়ে থাকেন যেগুলো মূলত এক ধরনের স্টেরয়েড। প্রথমে খুব কম ডোজে এই ওষুধ প্রয়োগ করা হয়। সপ্তাহে সপ্তাহে ডোজ বাড়ানো হয়। রোগের উপসর্গ উল্লোখযোগ্য

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এক ডাক্তারের সংগ্রামের গল্প

নটরাজ মালাকার

ডেভিড স্যাভার্স (১৯৪৫-২০১৯), স্বাস্থ্য ক্ষেত্রে বৈষম্য দূর করার যে বিশ্বব্যাপী আন্দোলন, সেই আন্দোলনের এক অগ্রণী কর্মী। ডেভিডের জন্ম দক্ষিণ আফ্রিকায়। তবে তাঁর বড় হয়ে ওঠা রোডেশিয়ায় (বর্তমানে জিম্বাবোয়ে)। সেই দেশেই তাঁর ডাক্তারি পাশ করা। গ্রেট ব্রিটেনের ঔপনিবেশিক শাসনের জোয়াল থেকে রোডেশিয়াবাসীর মুক্তির সংগ্রামে অন্যতম অংশীদার হিসেবে নিজেকে যুক্ত করেছিলেন ডেভিড। তিনি মনে করতেন স্বাধীনতার সঙ্গে রয়েছে স্বাস্থ্য অধিকার এবং সামাজিক ন্যায় প্রতিষ্ঠার সম্পর্ক।

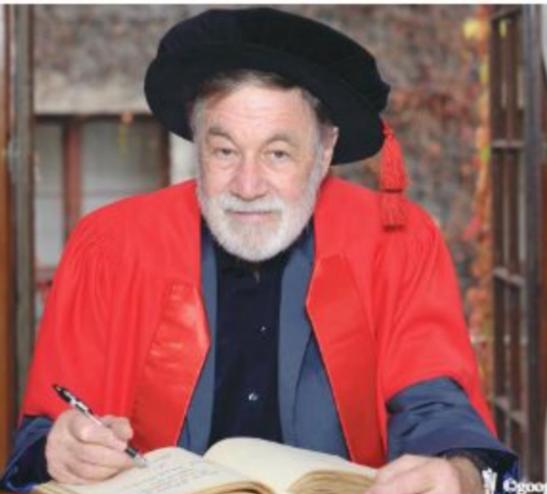
১৯৭০-এর দশক। রাজনৈতিক হুমকির মুখে পড়লো তাঁর জীবন। রোডেশিয়া থেকে নির্বাসিত হলেন ডেভিড; রাজনৈতিক অভিবাসী হয়ে আশ্রয় নিলেন ব্রিটিশ যুক্তরাজ্যে। তবে তিনি রোডেশিয়ার স্বাধীনতার পক্ষে তাঁর সওয়াল অব্যাহত রাখলেন। যুক্তরাজ্যে গিয়েও সাধারণ মানুষের জন্য কাজ করা থেকে নিজেকে দূরে

সরিয়ে রাখতে পারলেন না তিনি। ডেভিড ছিলেন শিশুরোগ ও জনস্বাস্থ্য বিশেষজ্ঞ। ব্রিটেনে থাইভেট থ্যাটারিস-এর বিরুদ্ধে মেডিকেল অ্যাসোসিয়েশন এবং ইউকে পলিটিক্স অফ হেলথ ফর প্রতিষ্ঠার সঙ্গে যুক্ত ছিলেন তিনি। লন্ডন স্কুল অফ হাইজিন অ্যান্ড ট্রপিক্যাল মেডিসিনে থাকাকালীন তিনি মার্কসবাদী চিকিৎসক ভিসেন্টে নাভারোর লেখার দ্বারা প্রভাবিত হয়েছিলেন। ১৯৭৮ সালে প্রাথমিক

স্বাস্থ্যসেবা সংক্রান্ত আলমা আটা ঘোষণার জোরালো সমর্থক ছিলেন তিনি।

১৯৮০ সাল। স্বাধীনতা পেলো ডেভিডের দেশ। সদ্য স্বাধীন জিম্বাবোয়েতে ফিরে এলেন তিনি। জনমুখী স্বাস্থ্য ব্যবস্থা গড়ে তুলতে সরকারের দিকে সহযোগিতার হাত বাড়িয়ে দিলেন। আলমা আটা ঘোষণাকে সামনে রেখে ডেভিড ও তাঁর সহযোগীরা কাজ শুরু করলেন। তাঁর জোর দিলেন সম্বদায়-কেন্দ্রিক স্বাস্থ্য ব্যবস্থার উপর যেখানে রোগ প্রতিকারের চেয়ে রোগ প্রতিরোধ বেশি প্রাধান্য পাবে। ডেভিড ও তাঁর সহযোগীদের উদ্যোগের ভালো অগ্রগতি হতে দেখা গেল। তবে সময়ের সাথে সাথে জিম্বাবোয়েতে সর্বজনীন প্রাথমিক স্বাস্থ্যসেবাকে এগিয়ে নেওয়ার পথের বাধাগুলি ধকটভাবে মাথাচাড়া দিতে শুরু করে। সকলের জন্য স্বাস্থ্য ও সাধারণ মানুষকে ন্যায্য চিকিৎসা পরিষেবার দেওয়ার যে স্বপ্ন ডেভিড দেখেছিলেন তা আর পূরণ হলো না।

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XXXVII Training Programme on Science Communication and Media Practice 2024-2025

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Indian Science News Association (ISNA)

cordially invite you to the
Certificate Award Ceremony of the XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025 and the release of Vol. 3, Issue 2 of e-Paper 'Bigyan Babun'

to be held on
30th September, 2024 at 3.30 p.m. via Google Meet

Shri Biswajit Maital
Vice-President, Corporate Communication,
Birla Corporation Limited (M.P. Birla Group)
Former Senior Journalist, The Statesman
will grace the occasion as the Chief Guest

Dr. K. Muralidharan
President, ISNA
Former Director, CSIR-CGRI, Kolkata
will preside over the programme

Prof. Manas Chakraborty Honorary Secretary, ISNA	Dr. Amit Krishna De Convener XXXVII Training Programme on Science Communication and Media Practice 2024-2025 and Honorary Secretary, ISNA	Shri Prasanta K. Bose Chairman XXXVII Training Programme on Science Communication and Media Practice 2024-2025 and Honorary Secretary, ISNA
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Place: Kolkata
Dated: 25/09/2024
Link: <https://meet.google.com/ahr-ubxi-yzf>

Programme Overview

1984

It was not George Orwell's 1984. But this 1984 cannot and should not be forgotten by an average Indian. For, one of the worst industrial disasters in the history of mankind took place here in India and that too exactly 40 years ago that claimed more than 22,000 lives and had left millions behind maimed. The Bhopal gas disaster, caused by the leakage of a poisonous gas, Methyl Isocyanate (MIC) from the reservoir of a globally famous multinational company's chemical plant can be easily compared with the Chernobyl happenings or with the drop of the atom bomb at Hiroshima and Nagasaki in terms of its enormity.

Strangely enough, when people are being reminded of the severity of the disaster through horrific graphics, the solar pond inside the perimeters of the plant filled up with chemical refuse is reported to be still emitting obnoxious gaseous particles in areas that surround the factory. There is no dearth of people in the lower stratum of the society in these surroundings and they are falling prey to the emission. Reports of these hapless people continuously getting afflicted with physical deformity, breathing distress or with skin ailments are common. A popular Bengali daily sent one of its reporters to this site to review what is happening in the place of occurrence 40 years after. The serialized breathtaking accounts pointed out that the story continues to be sad, one of human indifference.

That the U.S.-based corporation was lackadaisical in its operations from the very beginning was observed by many especially when safety aspects were concerned. According to Wikipedia, a well-known professor of environmental studies, an American Indian, attached to the University of California, Santa Cruz, had observed that the company "had participated in decades of previous instances of environmental negligence in every part of the world." The company's response to the Bhopal gas disaster, Prof. S. Ravi Rajan explained, was one of a "campaign of erasure." He then argued that this type of response "was to be expected according to the established cultural practices within large corporations."

There were many causative reasons behind the disaster as if it was bound to happen sooner than later. Before that

crucial night of December 2/3, 1984, a refrigeration system meant to cool tanks containing liquid MIC was shut down two years before. As a result, its high temperature set to sound at 11 degree C was disconnected and the storage tank temperatures ranged between 15 degree and 40 degree C, an invitation to a calamity. At the same time, a flare tower to burn the MIC as it escaped that had had a connecting pipe removed for maintenance was found to be "improperly sized." On the other hand, a vent gas scrubber, which was deactivated had "insufficient" caustic soda and "power to safely stop a leak of the magnitude produced."

The result was horrendous. Within 45 minutes to an hour, about 30 tonnes of MIC escaped from the tank into the atmosphere. In two hours, the volume of the gas emanating from the tower rose to 40 tonnes. How much more lethal could it be? Ironically, the gases were blown in a southeast direction over Bhopal, the recorded accounts said. Two siren systems, one to alert people outside were found decoupled but only the factory people could flee in a safe direction.

After a series of acrimonious litigations that led to bail-outs and convictions of American and Indian industrialists and technocrats, reports of which were repeated both in national and international media, it was apparent that the Government of India was also not prepared to face the disaster of such a proportion. In the long run when the American company "had absolved itself of the situation," the Government of India was the "next institution that was looked to by the people of Bhopal." But, Prof. Rajan said, "the government's attempts at short and long-term plans failed in successfully aiding victims and instead created an opportunity...built largely at the expense of the victims."

After these tortuous and eventful four decades when several analyses were done some basic questions still remain unanswered. Was there sufficient scientific research after the disaster? Is the government ready and equipped to face such a catastrophe, God forbid, if that happens again? Are contaminants still there in the air that will continue to affect generations of the future in the vicinity?

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Acharya Jagadish Chandra Bose The Jewel Scientist Of British India Sudhendu Mandal

Indian Renaissance was a constructive interaction and a creative synthesis of the best of both worlds, i.e. East and West, within the canopy of Indian tradition and culture. Ram Mohan Roy was the torch bearer followed by Iswar Chandra Vidyasagar, Michael Madhusudan Datta, Bankim Chandra Chattopadhyay, Jagadish Chandra Bose, Rabindranath Tagore, Prafulla Chandra Ray, Asutosh Mukherjee and many others from all stages of Indian life, culture, religion, literature, and finally science. Acharya Jagadish Chandra belonged to the Jewel scientists of British India period. Jagadish Chandra changed the world through his

talents and innovative ideas. He has made significant contribution to the betterment of humankind during his time to have the identity of our own nation. His life is a role model for all persons who aspire to make a mark in the national/international context, and may achieve excellence in their own field of specialization. Acharya Sir Jagadish Chandra Bose, B.A. (University of Calcutta), B.A. (Cambridge) B.Sc., D.Sc. (University of London), CIE, CSI, FRS (30th November, 1858 to 23rd November, 1937) was a Bengali academician and a celebrated physicist,

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A Few Thoughts on AI Devaprasanna Sinha

The title could have been 'Artificial Intelligence at the Crossroads?'. That might raise eyebrows to many when the terms, abbreviated as AI, are around and in vogue with different connotations for the last two decades, though its genesis goes back to 1956 by John McCarthy with the development and usage of different software products similar to ex-

pert systems during those days. We have heard, studied and used terms like intelligent, intelligentsia, intellect, smart, even superintelligence, supersmart etc. in many disciplines. Without going much deeper into the various types of human intelligence, we have been generating and using AI applications, at times lustrous, coupled with almost all forms of machine intelligence



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High Altitude Travel Sickness A Banker Recalls "Cold Desert" Tour Experience Prasanta K. Bose



His oxygen saturation level at that time was only showing 30. He was gasping for breath and feeling absolutely restless. Though he was made to lie on bed, he was huffing and puffing. People like us who rushed to his help were flabbergasted because everything seemed impossible and beyond reach at that ungodly hour at a height of +17,000 feet in Leigh, India's "Cold Desert," the exotic destination that draws tourists from all corners of the world every year.

"Who could have imagined that the pleasure trip of a tourist party from Kolkata would turn into a nightmare for one of our members," recounts Mr. Shankar Chakrabarty, an official of India's largest public sector bank, who is an avid

traveller despite having replaced both knee joints. Now 77, he has served in the bank for 40 years. His wife Krishna suffering from slipped disc pains always accompanies him. This time too, the call of Leigh and Ladakh in response to an invitation from a travel operator was hard to resist. "We have heard stories of high-altitude travel sickness but did not experience it before. No caution was sounded for us by the travel manager," the banker recalls. The victim, a retired government servant of 62, could, however, be saved when the hotel manager came to his rescue. Even though it was quite late in the night, a car meant for tourists could be arranged for transporting the victim to a nearby hospital. Doctors on duty immediately arranged for him transmission of oxygen intermittently to make him stable and keep him out of danger. "But that took him three days

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INDIAN SCIENCE NEWS ASSOCIATION (ISNA)

XXXVI Training Programme (Online)
Certificate Course on Advanced Training on
Science Communication and Media Practice 2024-2025

to be held on
07 February, 2025 (Wednesday) at 3:00 p.m. via Google Meet

Professor (Dr.) Surajit Singh
The Chairman
Kolkata Institute of Industrial Technology, West Bengal
will grace the occasion as the Chief Guest

Shri Saikat Ghosh
Chief Editor, Sandesh
will grace the occasion as the Guest of Honor

Dr. K. Manojkumar
President, ISNA
Kolkata Institute of Industrial Technology
will grace the occasion as the program officer

Prof. Manoj Chakrabarty, Dr. Aniruddha Das, Shri Prasanta K. Bose
Honorary Secretary, ISNA, Treasurer, Chairman
XXXVII Training Programme/Science Communication and Media
Practice 2024-2025
and
Honorary Secretary, ISNA.

Kolkata
Sandesh 18/01/2025
Doc: Surajit Singh, gopijana, shikhar.pdf

XXXVII Training Programme (Online): Certificate Course on Basic Training on Science Communication and Media Practice 2024-2025

বিজ্ঞান ট্যাবলয়েড কর্মশালা

উদ্বোধনী অধিবেশন ২৬ মে জুন, ২০২৪

সঞ্চালক : মালবিকা সেনগুপ্ত	৪.২০-৪.২৫
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ইসনার ইতিহাস - ড. মানস চক্রবর্তী	৪.৩০-৪.৩৫
উদ্বোধকের পরিচিতি - প্রশান্ত কুমার বসু	৪.৩৫-৪.৪০
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কর্মশালার কর্মসূচী - ড. অর্পণ কুমার বন্দ্যোপাধ্যায়	৫.০০-৫.০৫
কি লিখব কিভাবে লিখবে : প্রশান্ত বসু	৫.০৫-৫.২৫
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পৃষ্ঠা পরিকল্পনা ও পৃষ্ঠা সজ্জা : ড. অর্পণ কুমার বন্দ্যোপাধ্যায়, সুকল্যাণ গায়ের, তনুশ্রী দে	৬.০০-৬.৪৫
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ধন্যবাদ জ্ঞাপন : ড. প্রবীর সাহা	৬.৫৫-৭.০০

বিজ্ঞান ট্যাবলয়েড কর্মশালা

দ্বিতীয় দিন ২৭ মে জুন, ২০২৪

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অ্যাসাইনমেন্ট নিয়ে আলোচনা : ড. শ্রীলক্ষ্মী দে, সৈকত বসু, মালবিকা সেনগুপ্ত, অর্ণিতা চক্রবর্তী, তুহিন সাজ্জাদ শেখ	৫.৩০-৬.০০
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বিজ্ঞান ট্যাবলয়েড কর্মশালা

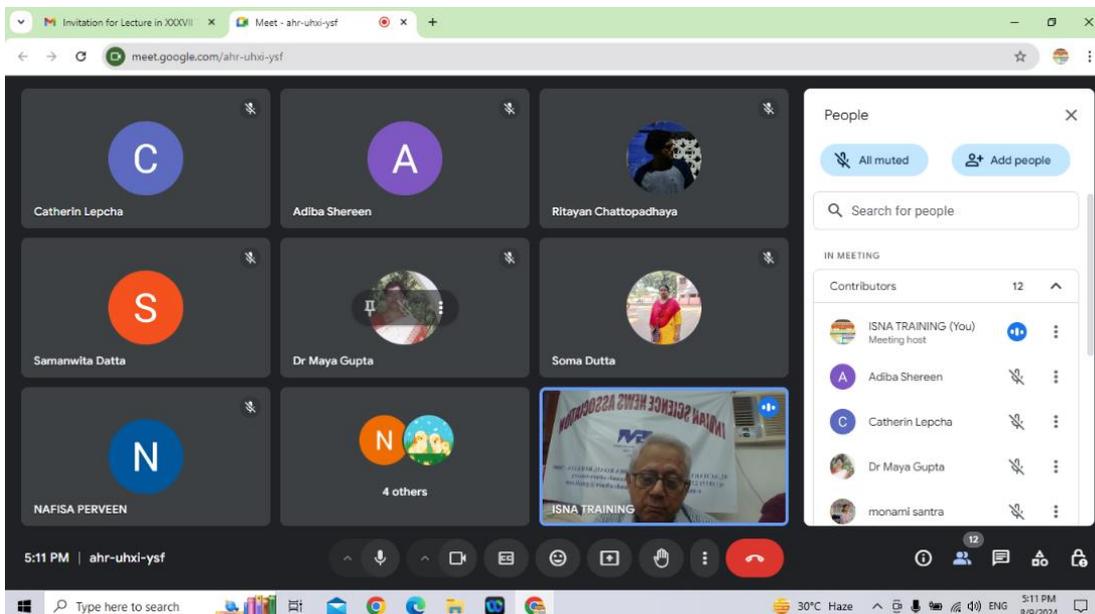
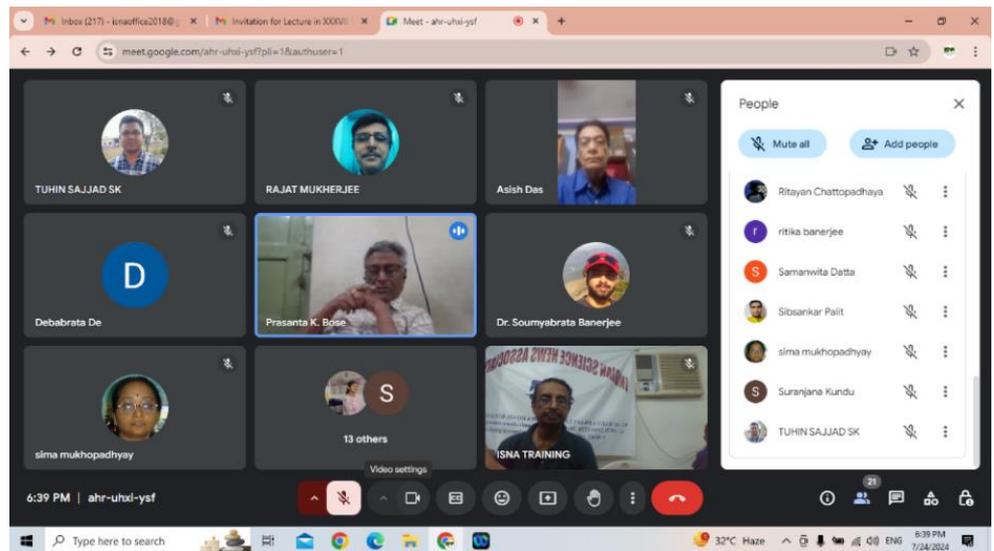
তৃতীয় দিন ২৮ মে জুন, ২০২৪

সঞ্চালক : মালবিকা সেনগুপ্ত	
ট্যাবলয়েড পৃষ্ঠা সজ্জার চূড়ান্ত উপস্থাপনা : প্রশান্ত বসু, ড. অর্পণ কুমার বন্দ্যোপাধ্যায়, সুকল্যাণ গায়ের, তনুশ্রী দে	৫.০০-৬.০০
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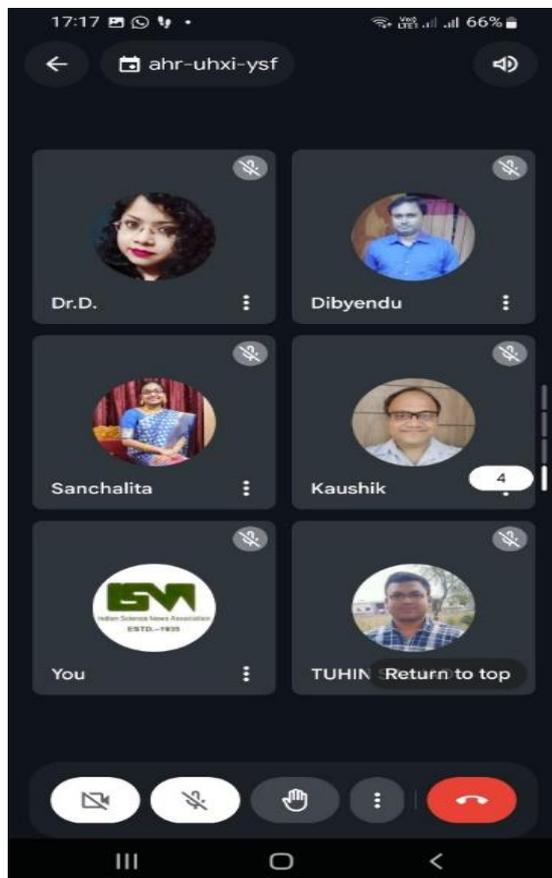
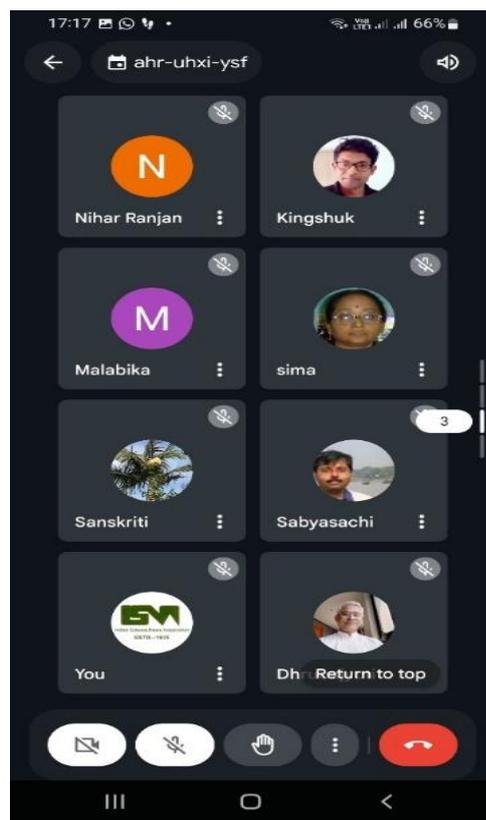
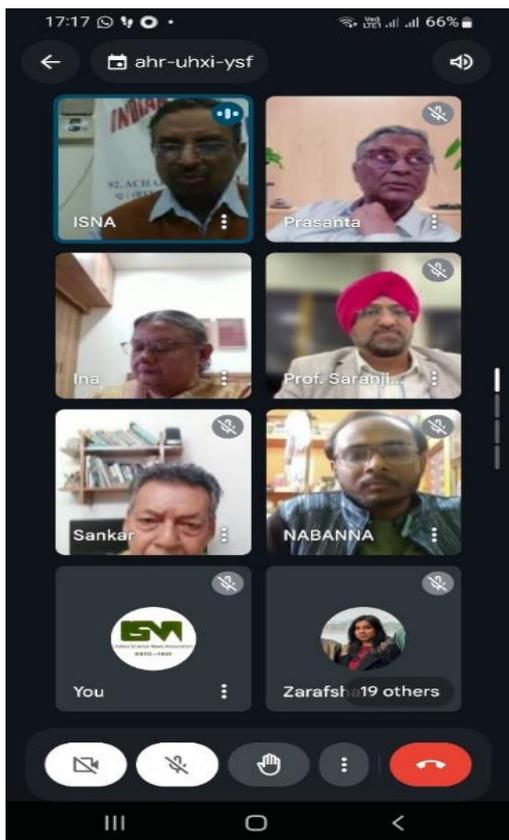


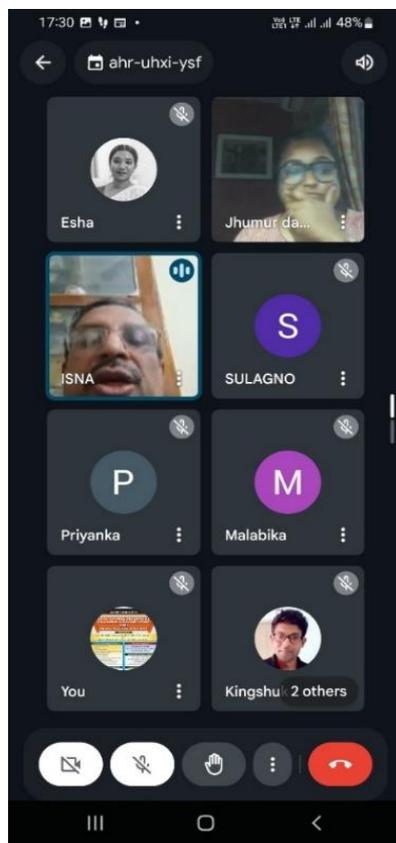
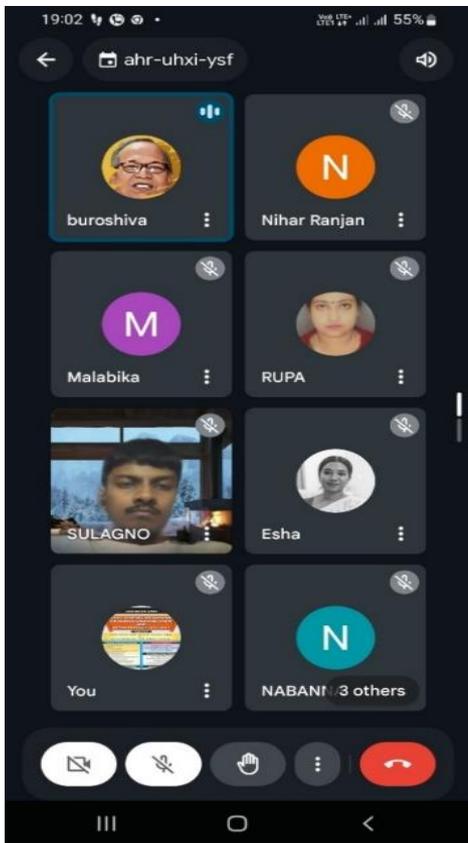
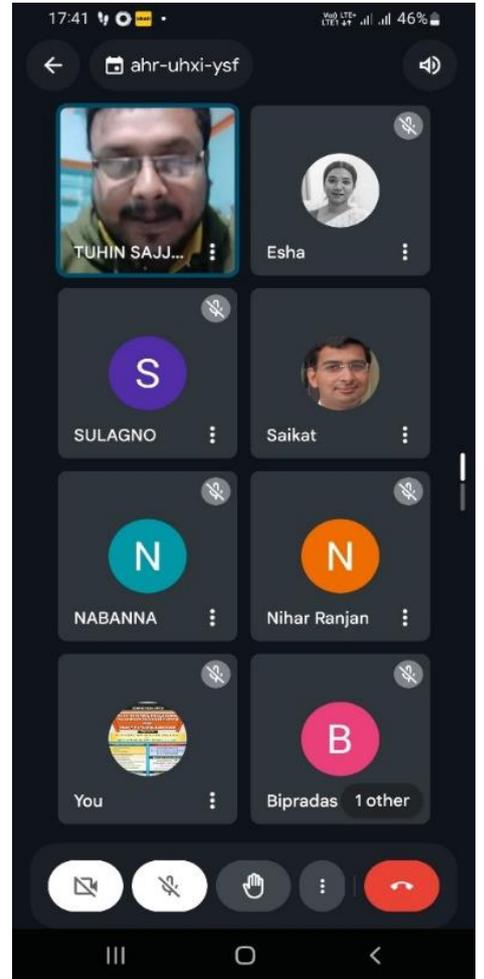
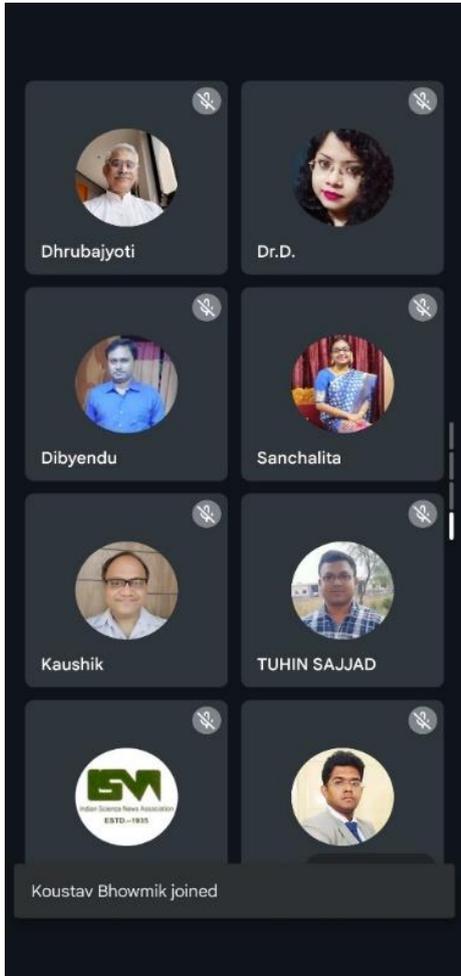
L to R: Dr. Amit Krishna De, Prof. Manas Chakrabarty, Prof. Bikas K. Chakraborty, Shri Prasanta K. Bose, Prof. Anupam Basu, Prof. Prabir Kumar Saha and Prof. Shivaji Chakraborty

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Dignitaries on the dais in the Certificate Award Ceremony of the XXXVII Training Programme (Online): Certificate Course on Advanced Training on Science Communication and Media Practice 2024-2025 (L to R) Dr. Amit Krishna De, Prof. Manas Chakrabarty, Prof. Bikas K. Chakrabarti, Dr. Swati Nandi Chakraborty, Shri Prasanta K Bose and Prof. Prabir Kumar Saha



Dignitaries distributing certificate to students



Visit to Indian Museum, Kolkata