

# SCIENCE MOVEMENT

(An initiative of Subhadra Charitable Trust)

# 2024

6<sup>th</sup> Edition



Organised By

**SUBHADRA CHARITABLE TRUST**

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## About Science Movement:

The 20th century has made the role of science and technology central to how the society works. Not just in production, economics, and war but also in sharing a public opinion, in defining culture, in politics, in music, in governance- everywhere science plays an important role today.

However, the science taught in school is often out of context and seems irrelevant to the lives of students, because of which many lose interest in the same. Students tend to reject concepts that are incoherent with their own lives, and have no space for out-of- box thinking and curiosity. It is, thus, obvious that if a student's own imagination is overlooked and his/her curiosity is suppressed, then even the most careful groundwork on the part of the teacher is a mere waste.

Science Movement is an initiative of Subhadra Charitable Trust, Bhubaneswar to address this irony of our educational system. It is a unique opportunity for school students to learn science through interactive lectures, demonstrations, activities, and experimentations, aimed at promoting the active participation of school students in basic sciences by providing them the right kind of guidance and learning opportunity. It is a flagship program to undertake initiatives to facilitate prolonged interaction between school students and leading researchers & academicians of the day. Besides supplementing student learning, such initiatives aim to provide a seamless setting for enthusiastic researchers to contribute at the grassroot level of learning by reaching out and talking to the students, enabling them to fuel their curiosity, and contributing towards igniting their young minds. To create a pipeline of India's future innovators and researchers, adept at pushing the frontiers of knowledge, and functioning at the helm of basic and applied sciences, technology & innovation.

## Current Announcement of 2023:

"Science Movement invites applications for Science Movement Aptitude Test (SMAT-2023) to be conducted in the month of September, 2023 to select the most eligible students for our Science Camp 2023 -2024. The participants of the Camp shall enjoy free accommodation with food, local travel, and the opportunity to experience scientific activities under the guidance of experts."

### Examination Details

Examination Date	September 3, 2023
Last Date of Registration	August 27, 2023
Declaration of Result	September 10, 2023
Mode of Examination	Offline (OMR Based)
Eligibility	Class IX, X & XI
Examination Fee	Rs. 50/-

### Examination Pattern

Duration : 2 Hours	Total Marks : 100	Negative Marking Applicable
Science (PCB): 45 Marks	Math: 15 Marks	Astrophysics: 40 Marks

### Syllabus

To help students strengthen their problem solving and lateral skills, SMAT questions will be non-conventional, non-routine type and thinking skill based.

## Benefits:

- Selected students will get chance to join National Level Science Camp.
- Interaction with eminent scientists and research personnel from reputed institutions like TIFR, BARC, NISER, IIT etc.
- Scholarship for meritorious students.
- Educational exposure tour to different institutions like NISER, IIT, IISER etc.
- Science Camp can introduce students to different areas of science and give them the confidence and inspiration to embrace science as a career.

## Special Points to Note:

- Entries in the specified pro forma only will be processed. This pro forma can be downloaded from our website: [www.sciencemovement.org](http://www.sciencemovement.org) or can be obtained from the office.
- Examination will be conducted all over Odisha in various cities.
- Results are declared after taking proper care. No revaluation claim will be entertained without valid reasons.
- This being a talent contest, marks will not be final. We reserve right to decide merit holders on various other relevant parameters, if required.
- Amount paid once, is not refundable.
- Entries without the registration (individual/Institutional) will not be entertained.



# Resource Persons of Science Movement 2022-2023 (June 8 - June 10)-(5<sup>th</sup> Edition)



**Prof. Ajit Mohan Srivastava**  
Retired Professor, Institute of Physics, Bhubaneswar.

Topic: "The Universe, elementary particles, and black holes"



**Prof. S R Santhanam**  
President, Association of International Mathematics Education and Research.  
President, Sri Prakash Synergy School, Andhra Pradesh.

Topic: "Mathematics in Technology and Technology in Mathematics"



**Sangram Dalei**  
Head of Department-Biochemistry,  
Cohen International School, Bhubaneswar

Topic: "Immune System, Diseases and Vaccines"



**Prof. Subhojit Sen**  
Asst. Prof., School of Biological Sciences,  
University of Mumbai -Department of Atomic Energy,  
Center for Excellence in Basic Sciences (CEBS),  
University of Mumbai. Ramalingaswami Fellow (2013-22).  
Topic: "Understanding DNA: Topology influences how we read our Genes"



**Dr. Debasmita Pankaj Alone**  
Associate Professor, Molecular Genetics & Epigenetics Laboratory  
National Institute of Science Education and Research (NISER ),  
Bhubaneswar

Topic: "Cancer: a multifactorial disease"



**Prof. Mayank N. Vahia**  
Retired Professor, Department of Astronomy and Astrophysics,  
Tata Institute of Fundamental Research (TIFR), Mumbai

Topic: "How to pursue a career in science"



**Mr. Ch Vaishnav**  
CBO & Co-Founder, Aviotron Aerospace

Topic: "The New Age Entrepreneurship (Learning from the Unsuccessful stories)"



**Prof. V. R. Pedireddi**  
Professor, School of Basic Sciences.  
Indian Institute of Technology, Bhubaneswar.

Topic: "Learning History of Science Inventions and Discoveries for Future Expeditions and Endeavours"



**Dr. Satish Devadas**  
Scientist-F, Institute of Life Sciences (ILS), Bhubaneswar

Topic: "How are you? And How you are? An immunological View"



**Prof. Bedangadas Mohanty**  
Professor, School of Physical Sciences.  
National Institute of Science Education and Research (NISER ),  
Bhubaneswar

Topic: "Dark Matter"



**Prof. Chandra Shekhar Purohit**  
Associate Professor, School of Chemical Sciences.  
National Institute of Science Education and Research (NISER),  
Bhubaneswar.

Topic: "Some interesting examples and demonstration of chemical reactions"



**Mr. Vijay A. Arolkar**  
Scientific Officer , Low Temperature Facility,  
Tata Institute of Fundamental Research (TIFR) Mumbai

Topic: "Experiments with Liquid Nitrogen and Mathematical Origami"

## Our successful students from Science Movement Camp



**INDRANIL**

INDIAN INSTITUTE OF SCIENCE  
IISC BANGALORE



**SATABDI S.**

INDIAN INSTITUTE OF SCIENCE  
IISC BANGALORE



**AKHILESH**

INDIAN INSTITUTE OF SCIENCE  
IISC BANGALORE



**ANUVA AISHWARYA**

INDIAN INSTITUTE OF SCIENCE  
IISC BANGALORE



**SHAYANI PARIDA**

INDIAN INSTITUTE OF SCIENCE  
IISC BANGALORE



**NIRIL PANIGRAHI**

INDIAN INSTITUTE OF SCIENCE  
IISC BANGALORE



**PRATEEK SAHU**

IIT KHARAGPUR  
MECHANICAL



**ABHIJEET**

IIT-ROORKEE  
METALLURGY



**KANHA JAIN**

IIT-KHARAGPUR  
MECHANICAL



**PRATIK BEHERA**

IIT-DELHI  
MATHEMATICS & COMPUTING



**DARSHANA MISHRA**

IIT-BHU  
PHARMACEUTICAL ENGG.



**SHUBHRANSU SHEKHAR**

MKCG , BRAHMAPUR



# Glimpses from Science Movement 2022-2023: 5<sup>th</sup> Edition

