



# India International Science Festival IISF 2022

Ministry of Science and Technology, Ministry Earth Science  
Govt. of India and Vijnana Bharati

Core Theme: Marching Towards Amrit Kaal With Science, Technology and Innovation

## Students Innovation Festival 22

*"Developing Sustainable Life based on Five Elements of Nature"*

Venue: LRC, MANIT, Bhopal, Madhya Pradesh

Dates: 22-23 January 2023



## **Overview**

India International Science Festival (IISF) is a celebration of achievements of Indian science & technology and public participation to inculcate scientific attitude and prosper the interest in science. Out of its various events, the Students Innovation Festival (SIF), previously held as the Engineering Students Festival (ESF) or Students' Engineering Model Competition (SEMC) of India International Science Festival (IISF) has united the top young engineering students' minds, showcasing their talents on an international stage, where doctoral-level scientists review and judge their work.

## **Background**

Previous version of the Model Competition have achieved objectives and gave an opportunity to entice every prospective engineer, researcher, or scientist. Some brief details are as under-

**IISF 2018(Lucknow):** Students' Engineering Model Competition (SEMC) was initiated at IISF 2018 held at Lucknow during 6-7 October 2018. In this event, National Institute of Immunology(NII) Delhi, Under Department of Biotechnology (DBT), Government of India was nodal agency. The venue was G.D. Goenka School Public School, Lucknow.

**IISF 2019 (Kolkata):** Indian Institute of Chemical Biology (IICB) of CSIR under Ministry of Science & Technology, government of India was the nodal agency. SEMC was held at campus of CSIR- IICB, Kolkata, during from 05th to 08th November 2019. Format and methodology were same as previous SEMC.

**IISF 2020(Virtual):** was organized in shadow of Covid19 pandemic virtually very successfully during 23-24 December 2020. CSIR-CEERI Pilani under Ministry of Science & Technology, Govt. of India was the nodal agency. The event was organized virtually including exhibition and evaluation by juries.

**IISF 2021 (Goa):** was organized very successfully during 11-12 December 2021. NCPOR under the Ministry of Earth Sciences, Govt. of India was the nodal agency. The event was organized in a hybrid mode including an exhibition on the venue. The final round of the evaluation was done at the venue as well as online. About 1200 teams comprised of more than 7000 students submitted their projects out of which 200 teams were shortlisted and 50 presentable project teams were invited to the venue for the exhibition.

*SIF2022 will be the fifth edition of this series.*

## **IISF 2022: Students Innovation Festival (SIF22)**

### **Objective**

Students Innovation Festival (SIF) focuses on spreading technical knowledge and suffusing enthusiasm in the minds of the students to develop technology for a sustainable life. Bringing together the best minds from the engineering world and

providing a platform of interaction, SIF22 would give an opportunity to entice every prospective engineer, researcher, or scientist. Providing an avenue for showcasing innovative products, projects, and ideas developed by Students, we see the best technology being incubated here.

Our ancient scientists defined five elements i.e., the Earth (*Prithvi*), the Water (*Jal*), the fire (*Tejas/Agni*), the air (*Vayu*), and the space (*Aakash*) as the core of life. In view of the ongoing problems and challenges in society, Indian (*Bharatiya*) thought needs to be based on scientific inventions or innovations for the well-being of mankind. The core theme of SIF22 is “Developing Sustainable Life based on Five Elements of Nature”. The focus of SIF22 will be to encourage students to think innovatively and scientifically to solve the problems of society using various technological fields, with a focus on five elements as per ancient Indian (*Bharatiya*) thought. They would be expected to keep these five elements, the earth (पृथ्वी), the water (जल), the fire (तेजस/अग्नि), the air (वायु), and the space (आकाश) as a core for the survival and sustainability of life on Earth. The students will be prompted to connect themselves with the roots of Bharat using their own innovation and creativity.

The format will be presentation and demonstration of new and innovative ideas in front of Jury panel in two stages. Science and Engineering Students will be invited to participate in SIF by way of competition and presentation. They would present their innovative and creative projects/ideas/achievements based on 5 themes during an exhibition at IISF. Projects will be invited through online portal from all the students pursuing Science, Engineering, and Technology programs in the Universities, Engineering, Agricultural, Medical, Ayush, Polytechnic, and other institutes including research labs from all over India.

After pre-screening top 100 selected projects will be invited for exhibition and final evaluation will be at the India International Science Festival, Bhopal, where National Jury will select projects for Prizes.

**Core Theme: Developing Sustainable Life based on Five Elements of Nature**

The projects should be based on the following or any other related subthemes

Theme	Subthemes
The Earth	Waste management, agriculture, soil, housing, food, Forestry, Health, Transport
The Water	Drinking water, Rivers, Irrigation, Wave Energy, Jal Shakti
The Fire	Energy, Solar energy, Thermal Energy, Electricity, Power generation
The Air	Environment, Pollution, Wind Power
The Space	Satellites, Space Stations, Drones, Aviation, Space Vehicles, Radiation

**Last date of submission:** Synopsis, images, and presentation links are to be submitted online by **January 10, 2023**.

### **Who can participate: Eligibility**

Engineering Students (Students/research scholars/Polytechnique/ B Tech /M Tech or equivalent or higher course) as well as Non-Engineering Students (Students/research scholars pursuing studies in basic sciences, agriculture, medical, Ayurveda, food technology or any non-engineering course at graduate or post graduate or higher level)

**Duration of the program:** January 22-23, 2023 (Sun-Mon)

### **Venue:**

LRC Building,  
Maulana Azad National Institute of Technology (MANIT),  
Bhopal, M.P.

### **Prizes and Certificates**

- Award and certificates to the topper and two runners-up teams in each theme
- Participation certificate for all the participants. In a team, maximum 6 students and one teacher/guide can register per project/idea.

### **Program Schedule at MANIT, Bhopal:**

- Inauguration (Jan 22, 2023)
- Exhibition and evaluation of projects by Jury (January 22-23, 2023)
- Final presentation and Valedictory (January 23, 2023)

### **National Coordinators**

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**Symbiosis Skills & Professional University**  
 cordially invites you to join  
**Curtain Raiser Program for**  
**6th India International Science Festival (IISF-2020)**

An initiative by Vigyan Bharati

**Students Engineering Model Competition & Expo (SEMC)**  
 Join us: [https://youtu.be/Co\\_DUIfczOQ](https://youtu.be/Co_DUIfczOQ)  
**15th December 2020**  
**(Tuesday)**  
**at 4P.M**

**Coordinators**  
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 Dr. C. J. Rajendra Prasad

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