

Engineering Students' Festival -IISF 21

11th- 12th December 2021, Panjim Goa



<http://scienceindiafest.org>

Glimpse of Past SEMC/IISF



Organised By



Department of
Science & Technology
GOVERNMENT OF INDIA



Department of Scientific and
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Overview:

We live in a world in which society is very much dependent on science and technology. For instance, evaporation of water, advancement of mobile technology, the way cars can move at 100 km/hr – all of it can be explained by science.

Through centuries of discoveries and invention, people have continued to unravel the nature of the world through science. However, the beauty of science lies not only in what we have discovered but in what is yet to be found! Humanity is far from reaching the ends of the Universe, and there are still many mysteries left to solve on Earth alone. We understood only 5% of the Universe, plenty to explore.

Science fairs are some of the best opportunities for students to pursue an interest in science and make discoveries and share them with their peers as well as renowned scientists, professors and professionals.

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.

IISF is also an initiative of Government of India to showcase the role of Science and Technology for the overall development of the country.

Out of its various events, the Engineering Students Festival (ESF), previously called as Students' Engineering Model Competition (SEMC) of India International Science Festival (IISF) will unite the top young engineering students' minds, showcasing their talents on an international stage, where doctoral-level scientists review and judge their work.

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 the nodal agency. The venue was G.D.Goenka School Public School, Lucknow. Themes for the competitions were focussed on National Missions as below:

1. Digital India
2. Make In India
3. Swatchh Bharath
4. Swasth Bharath
5. Renewable Energy

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 CSIR- IICB, Kolkata, during from 05th to 08th November 2019. Format and methodology were same as previous SEMC. Themes of this Students Engineering Model Competition were

1. Digital India
2. Make in India
3. Swachha Bharat
4. Swastha Bharat
5. Innovative Agriculture Practices and Rural Technology
6. Energy Harvesting
7. JalShakti
8. Strategic Applications

IISF 2020(Virtual): It was organized in shadow of Covid19 Pandemic during 23th-24th December 2020. CSIR-CEERI Pilani under Ministry of Science & Technology, Govt of India was the nodal agency. The event was organized on virtual mode including exhibition and evaluation by juries.

Themes were:

1. Digital Bharat: Education Technologies, Information Technology, IoT enabled systems and cyber security, AI
2. AtmaNirbhar Bharat: Design and Manufacturing Technologies
3. Swachha Bharat: Environment, Pollution, Energy harvesting and waste management, JalShakti
4. Swastha Bharat: Public Health, Integrated health. including Innovative diagnostic aids
5. AgriTech: Innovative agriculture practices & rural technologies.

IISF 2021: Engineering Students' Festival (ESF2021) December 11th-12th, 2021, Panjim Goa

Objective:

Engineering Students' Festival focuses on spreading technical knowledge and suffusing enthusiasm in the minds of the students to develop technology for the wellness of the society. Bringing together the best minds from engineering world and providing a platform of interaction, ESF 2021 would give opportunity to entice every prospective engineer. Providing an avenue for showcasing innovative products, projects, ideas developed by students, we see the best technology being incubated here. The focus of ESF21 will be to provide a launch pad for new initiatives and expanding existing programs to foster innovation, to bridge the gap between basic and applied science, to use S&T for rural economy and to promote Vocal for Local.

Theme- Vocal for Local:

1. Edu Tech
2. Agriculture & Food Processing
3. Environment & Disaster Management
4. National Defence Technologies
5. Medical & Community Healthcare
6. Transport and logistics



Format & Methodology of ESF-2021:

The students are invited to participate in ESF 2021 by way of competition and presentation of their innovative and creative projects/ideas/achievements based on 6 themes during an exhibition at IISF. The students can register themselves through a portal for ESF and submit their project's idea and demonstration as short video online. In first stage, there will be preliminary scrutiny of submissions, and upto 200 best ideas/proposals would be selected for final presentation in hybrid mode (25% physically + 75% online) during IISF-ESF at Goa. The preliminary scrutiny will be done by online Jury whereas final selection will be done at IISF-ESF at Goa, by National Jury on physical mode.

Method of registration and Eligibility:

Projects will be invited through online portal <https://www.scienceindiafest.org>

There would be 2 categories

1. Engineering Students Category (Students/research scholars pursuing their ITI course/Polytechnique/ B Tech /M Tech or equivalent or higher course)
2. Non-Engineering Students Category (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)

Mode of Selection

- Models/Ideas/projects received online will be forwarded to a panel of juries to evaluate the projects online based on pre-decided criteria.
- The students should send the details of their READY to DISPLAY models /project online/offline along with images and demo video link. An Online module /portal will be used for registration of models with the provision of submitting images of themselves, project and video link(public shareable drive viz google drive/ YouTube/ drop box etc.). Entries of Models/ideas will be pre- screened online by Juries/judges.
- 02 Students from each selected (limited number) group project will be allowed to present the project at Goa (IISF Venue), subject to terms & conditions. The TA, DA and accommodation will be arranged for these students.

- Top three selected groups/team under each theme/category will receive cash prize and certificate.
- All participants will receive certificate.

Last date of submission: 25th NOV, 2021

For registrations visit <https://scienceindiafest.org> , register under EVENT PARTICIPATION; verify email/mobile number via OTP. After successful registration and login, submit your project/model details at Engineering Students' Festival.

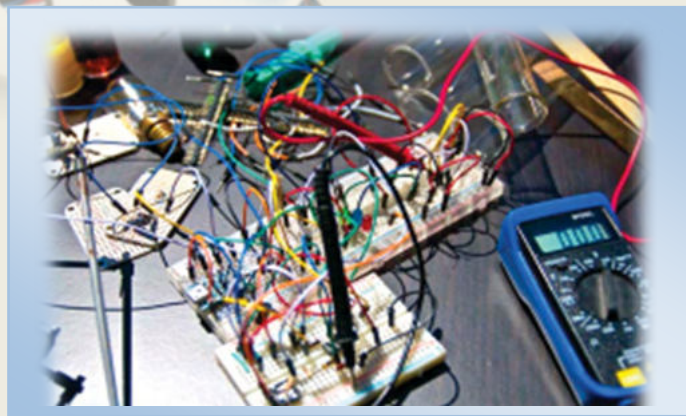
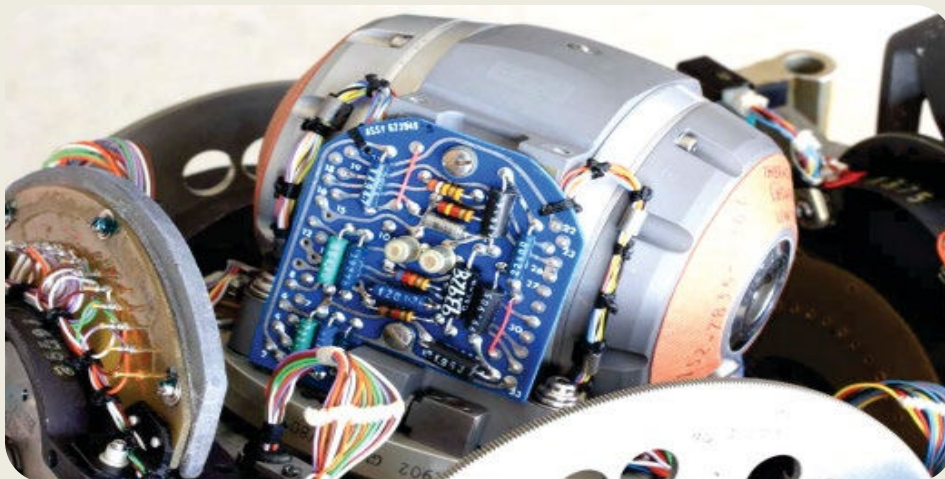
This will be a unique platform for budding engineers and scientist to exhibit their ideas, interact with like-minded persons and make contacts. Approx.30000 students, academicians and mentors are expected to participate/visit virtually (hybrid mode) in the event.

National Coordinator:

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SUPPORTED BY



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