

JIGYASA 2021-22

“Scientist Student Connect Programme”

STUDENT COMPETITIONS (Online mode)

“TECHNOVATION (Class 9-12)”

Background

- ❖ CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, is conducting JIGYASA events for knowledge sharing between scientists and students.
- ❖ As like previous year, innovative online competitions are being organised for school students, namely **SCIFIC** (for class 6-8) and **TECHNOVATION** (for class 9-12)

Objective

This program objective is to improve the student's problem solving capabilities and creative thinking skills. Activities can be carried out either independently by students or under the technical guidance of their parents / teachers.



Organised by
CSIR-Structural Engineering Research Centre
CSIR Campus, Taramani,
Chennai – 600 113, India
www.serc.res.in

TECHNOVATION (Class 9-12) – Guidelines

- ❖ TECHNOVATION is a technology development activity. Target students – Class 9 to Class 12. Each team will comprise of not more than **five** members. Maximum of **3 groups (5 students (max.) / group)** from each schools can participate in TECHNOVATION. Nominated students should register using the registration link provided.
- ❖ Topics could be Engineering / Energy / Environment / Infrastructure / Agriculture/ Food / Health & Fitness / Forces & Motion / Robotics.
- ❖ It involves identification of the problem and its impact, development of a new scientific idea / innovative solution to tackle the problem using science, technology and engineering principles.
- ❖ Each team need to submit a document highlighting survey of existing solutions along with their drawbacks, list of various solutions explored before arriving at the proposed solution, the motivation and scientific reasoning behind the idea, experiment details if conducted, final design and prototype of the solution. Teams can include illustrations, pictures and graphs in the project document.
- ❖ Each team is also required to submit a PowerPoint presentation of 5-8 slides (mandatory) / short video of 2-3 minutes (optional) describing their solution. Templates for the presentation and the project document will be sent through email
- ❖ Prize will be given to the selected participants based on the evaluation committee's recommendation (committee comprises the scientists of CSIR-SERC & CSIR Madras Complex).
- ❖ All submission should be either in **Tamil** or **English** or **Hindi** only.

Categories

- Category – 1: Government schools of Tamilnadu,
- Category – 2: Government schools of Puducherry,
- Category – 3: Kendriya Vidyalaya schools (Nation-wide)

Details of Cash Prize (for each category)

First Prize	- Rs.10000/-
Second Prize	- Rs.6000/-
Third Prize	- Rs.4000/-
Consolation prizes	- Rs.1000/- (5 nos)

Deadlines

Registration	- 31 st December 2021
Submission of final entries	- 20 th January 2022
Declaration of results	- 1 st week of February 2022

General Rules

1. Each entry should certify that it is their own original content. Any violation of copying or infringement of others ideas / content will automatically lead to disqualification.
2. A copy of submitted registration form will be sent to the respective schools of participants for cross verification.
3. Judges decision will be final. No appeals will be entertained.
4. CSIR-SERC will not be responsible for any third party claims and complaints regarding the ownership of ideas submitted.
5. Prize money will be transferred to the school accounts only, NOT to the students' account. Principals / Headmasters are kindly requested to handover the same to the winning students.

Registration

The registration is free and no payment is required. It can be completed online- <http://forms.serc.res.in/view.php?id=50808>

“Certificate of participation will be issued to all student participants”

For further details, please contact:

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