



# IEEE E-V-REKA

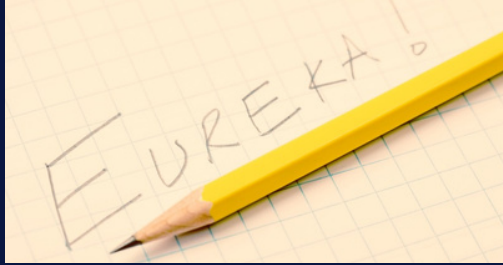
*Inspire...Empower...Encourage...Engage...*

## GUIDE

A movement to raise the National High School Science & Technology literacy level using College youth as “**Ambassadors of Education**”

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# ABOUT IEEE EU-REKA



## IEEE EU-REKA: WHY AND WHAT?

India is all set to become the world's third-largest economy surpassing many other developed countries. IEEE believes that Science and Technology is the fuel, and education the driver for this economic growth. IEEE EU-REKA is the initiative taken up by IEEE Pune Section as part of the national exercise to meet this goal.

- **IEEE EU-REKA** proposes to achieve this goal through the joint involvement of many sections of our society -- student volunteers from colleges, expert mentors from Industry and academia, and children from rural and urban high schools.
- **IEEE EU-REKA** follows a framework enabling colleges, companies, and communities to infuse curiosity, creativity, and self confidence in school children – by exposing them to advanced state of the art technologies and mentoring them in making informed decisions about their future education path
- **IEEE EU-REKA** is in alignment with the Nation's Educational policy by following practices encompassing Diversity, Equity, and Inclusion (D, E & I) in the country --- breaking the gender barrier, and shrinking the rural/Urban division
- **IEEE EU-REKA** has won acclaims of people who matter -- Dr Kasturirangan, Chief Architect of National Education Policy, Dr Sahasrabudhe, Former Chairman, All India Council of Technical Education, Mr Deepak Mathur, Director, IEEE Asia Pacific Region, and many many more.





**Prof. G.S. Mani**

# MESSAGE FROM GENERAL FOUNDING CHAIR

Dear Partners in IEEE Eu-Reka,  
IEEE Eu-Reka is a promotional program for encouraging school children to study further, in particular those in rural areas and girls. With millions of S&T students passing out of our colleges annually, where else should we look for promoting this program? Guys, you are one of the biggest knowledge-bases that we have, and India trusts you. Get involved in this Nation building mission, become an 'Ambassador of Education', and motivate your juniors to go for further studies. Assure that India is in safe hands.

HAPPY EU-REKA JOURNEY !!

GS Mani  
General Founding Chair | IEEE EU-REKA





# ABOUT

IEEE  
**140**  
1884 - 2024  
YEARS

**IEEE** is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

IEEE has:

- Over **460,000** members in more than **190** countries, with more than **66** percent from outside the United States
- More than **171,000** Student members
- **344** Sections in ten geographic Regions worldwide
- **2,709** Chapters that unite local members with similar technical interests
- **3,635** Student Branches at colleges and universities in over **100** countries
- **4,194** Student Branch Chapters of IEEE Technical Societies
- **639** affinity groups; IEEE affinity groups are non-technical sub-units of one or more Sections or a Council. The affinity group parent entities are the IEEE-USA Consultants Network, Young Professionals (YP), Women in Engineering (WIE), and Life Members (LM)





# OBJECTIVES

## ➤ Exposure

Expose high school children to advanced state-of-the-art technologies

## ➤ Reduce Drop-outs

Encourage high school children to pursue science & technology studies, thereby reducing drop-out rates

## ➤ Gender Equality

Promote gender equality by encouraging girls in high schools for higher education

## ➤ Knowledge Sharing

Facilitate college students' interactions with urban and rural high schools to share knowledge about advanced technologies

## ➤ Inclusiveness

Promote educational inclusiveness and bridge urban-rural literacy gaps in high schools





## EVALUATION CRITERIA

- Motivating capabilities
- Use of pedagogical tools
- Technical content delivery
- Utilization of IEEE educational resources
- Meeting overall IEEE EU-REKA objectives

## ELIGIBILITY CRITERIA

- Students pursuing Bachelors Degree (S&T)
- Team size - 2 to 4 members
- One team member must be a girl student
- Team should comprise of atleast one IEEE Student member





# GUIDELINES FOR INTERACTION OF TEAM WITH SCHOOLS

- Minimum with four schools, out of which two should be in rural area
- Select one of the given tracks for interaction
- All interactions must be in-person
- Mandatory to collect feedback from schools in the prescribed format





# GUIDELINES FOR TEAM MENTORSHIP

The mentor need to be a domain expert of the track



Mentor is optional



Mentors can be a professional IEEE Member from Industry / Academia / Research Organisation

Mentor's role will be to guide the team and help them whenever required







# TECHNOLOGY TRACKS

- ◆ **Technologies for Agriculture & Food Processing**
- ◆ **Technologies for Environment, Climate Change, Sustainability & Natural Disasters**
- ◆ **Technologies for Virtual Education of Science, Engineering, Art and Technology**
- ◆ **Technologies for Rural & Urban Development**
- ◆ **Technologies for Health, Wellbeing & Sports**
- ◆ **Technologies for Woman Welfare**

*Advancing technology for Humanity*



# PHASES

## Phase 1

Formation of Team  
as per the guidelines  
Registration on IEEE  
EU-REKA Portal

## Phase 2

Interactions with schools  
Collection of feedback  
Upload to IEEE EU-REKA  
portal

## Phase 3

Online  
presentation by  
selected teams  
Shortlisting of  
top teams

## Phase 4

In-person  
presentation  
by shortlisted  
teams

## Phase 5

Felicitations  
of Achievers





# MILESTONES



	2019	2020	2021	2022	2023
COLLEGE STUDENTS	450	458	529	399	681
SCHOOL CHILDREN	15,742	11,458	15,081	15,413	15,754
HIGH SCHOOLS	208	179	289	358	443



# PARTNERS



Leap & Scale



IEEE Pune Section

IEEE Pune Section

IEEE TryEngineering



Society for Data Science

IEEE Education Society, Pune Chapter



JCAME IEEE AP-S, MITT-S, & EMC-S  
JOINT CHAPTER, PUNE  
ELECTROMAGNETICS FOR MANKIND EAM

IEEE Pune Section JCAME Chapter

IEEE India Council

IEEE INDIA COUNCIL



IEEE Antennas and Propagation Society





# CONNECT WITH US



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