

Eu-Reka 2021 E-Booklet

Sponsors and Promoters



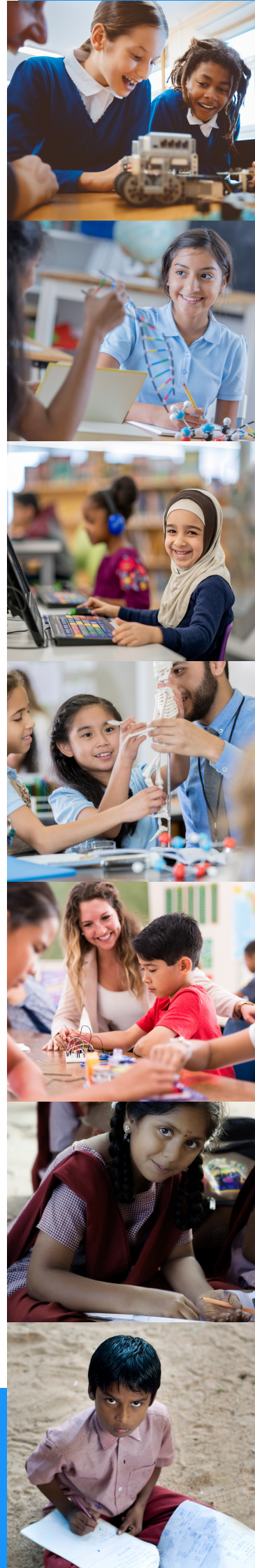
EU-REKA 2021
SHARE GIVE BACK INSPIRE
IEEE IS LOOKING AT WHAT YOU CAN DO FOR SOCIETY





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Phone : 011-26131577 - 78, 80
011-29581000
Website : www.aicte-india.org



अखिल भारतीय तकनीकी शिक्षा परिषद्
(भारत सरकार का एक सौविधिक निकाय)
(मानव संसाधन विकास मंत्रालय, भारत सरकार)
नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली-110070

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(A Statutory Body of the Govt. of India)
(Ministry of Human Resource Development, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

F. No. AICTE/Logo/Misc/2021-22/

Date: 16th August 2021

To

All Principals/Directors
AICTE approved Technical Institutions

Subject: 'Eu-Reka 2021' program is being conducted by IEEE Pune Section.

Dear Sir/Madam,

We are happy to inform you that **IEEE Pune Section** is being conducting 'Eu-Reka 2021' program to raise the National High school Science & Technology literacy level using College youth as 'Ambassadors of Education'.

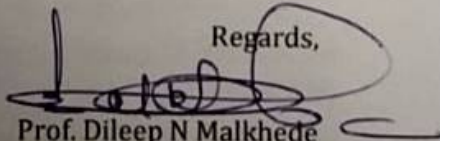
The objective this event is as under:

- Expose high school students to advanced state-of-art technologies.
- Motivate high school students to pursue higher studies in S & T and thus reduce drop-out rates at high schools.
- Encourage girl students in high schools for higher education thus promoting gender equality.
- Work towards educational inclusiveness by reducing disparity between urban and rural literacy at high school levels.
- Provide an opportunity for college students to interact with high school students at urban and rural schools and share their knowledge in advanced technologies.

For more information, i.e. Eligibility criteria, Guidelines for Interaction, Participation & Selection Process etc. is mentioned in the E-Booklet attached.

We hope your institution will take maximum advantage of this event. For this, it is requested that this information be adequately publicized among your faculty and students to participate in the above event. There will be no financial liability both for students and institutions.

Regards,


Prof. Dileep N Malkhede
Advisor -I (P&AP)



WHY EU-REKA?

Do you know?

1. According to the Census of India, the rural literacy rate stands at just 69 percent, whereas urban literacy rate has reached about 85 percent. For inclusiveness, this disparity between urban and rural literacy level needs to be narrowed.
2. In India, over 30% of girl students drop out of schools by the time they get to class IX and this number rises to 57% in class XI. There is a need to reduce the High dropout rate among girl students, thus promoting gender equality. 'If you educate a man, you educate an individual, however, if you educate a woman, you educate a whole family'.
3. Average age of an Indian is 29 years, compared to 37 for China and 48 for Japan. This emphasises the need to empower the younger generation and there can be no better way than through better education. In this technological era, higher S & T education is very important for growth of our country.
4. Youth in colleges have a responsibility towards the endogenous growth of the country; and the best way is to share their knowledge and motivate the youngsters in the schools to take up higher education in Science and Technology



AIM AND OBJECTIVES OF EU-REKA 2021

AIM

Major aim of Eu-Reka program is to raise the National High school Science & Technology literacy level using College youth as 'Ambassadors of Education'

OBJECTIVES

- Expose high school students to advanced state-of-art technologies
- Motivate high school students to pursue higher studies in S & T and thus reduce drop-out rates at high schools
- Encourage girl students in high schools for higher education thus promoting gender equality.
- Work towards educational inclusiveness by reducing disparity between urban and rural literacy at high school levels.
- Provide an opportunity for college students to interact with high school students at urban and rural schools and share their knowledge in advanced technologies

EU-REKA 2021

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ELIGIBILITY CONDITIONS FOR EU-REKA 2021

1. All students pursuing Bachelor's degree courses in Engineering/Technology/BCA/Science are eligible to participate in Eu-Reka 2021. They must be full-time students in a recognized University/College
2. Individual students are not eligible to participate. He / She must be part of a team.
3. A team can consist of 2/3/4 eligible members; A student can be a member of only one team.
4. There must be a minimum of one girl student in a team
5. At Least one member of the team must be an IEEE student member. Teams without any IEEE student member will not be registered.
6. For any clarification on the matter, the Help desk may be contacted.
7. Decision by the EU-REKA 2021 Organisation Committee is final in all matters.



FIND YOUR TEAMMATE

The Scheme 'FIND YOUR TEAMMATES' is a tool for forming a team. It works two ways :

a) For a Non- IEEE member: If you are not an IEEE member, and still want to participate in Eu-Reka 2021, we suggest two ways.

(i) We suggest you should become a student member of IEEE. Details available at <https://www.ieee.org//> / Contact us on ieee.eureka@gmail.com. After you become a member, you can pick up 1/2/3 of your friends in your team, who need not be IEEE members. Then you can register as a team following the rules and regulations of Eu-Reka 2021 OR

(ii) If for some reason you do not want to become a member now, you can send details to us and we will try to find an IEEE member who can partner with you and take you forward in your journey on Eu-Reka 2021.

b) For an IEEE member: If you are an IEEE member, looking forward to participating in Eu-Reka 2021, but unable to find members to form a team, you can approach us on ieee.eureka@gmail.com, giving your details. We can help you in getting teammates, who may not be IEEE members, but are keen on teaming up with an IEEE member for the sake of participation.



GUIDELINES FOR INTERACTION WITH SCHOOL CHILDREN

1. All participating teams of Eu-Reka 2021 should interact with 4 high schools (3 in Urban area and 1 in Rural area) -- Minimum.
2. It will be the responsibility of each team to choose the schools for interaction. Ensure that the schools have necessary Network Infrastructure to support your on-line interactive session. Help from Help Desk can be taken in choosing schools.
3. Fix up a time schedule with each school for the interactive session based on mutual convenience
4. Start preparing your educational material for school interaction on one of the following subjects
 - (a) Technologies for Agriculture, and Food Processing
 - (b) Technologies for Environment, Climate change and Natural Disasters
 - (c) Technologies for Virtual education of Science and Technology
 - (d) Technologies for Rural development & Women welfare
 - (e) Medical technologies for health and Wellbeing
5. You can take the help of a mentor (optional) in preparing your educational material. The mentor can be from your College / Industry / local IEEE section. The mentor cannot participate in the interactive session with the school.



GUIDELINES FOR INTERACTION WITH SCHOOL CHILDREN

6. While preparing, remember the objectives of Eu-Reka. Major objective is to motivate the school children to take up higher studies in STEM by giving them a flavour of its benefits in their day-to-day life. It is also to boost the confidence, self-esteem and aspirational level of the students to continue studies beyond high school level. Bear in mind the Evaluation Parameters (given below) which will be used for evaluating your performance, while preparing the material.

7. It is advised that your material should be ready well in advance and you do rehearsals of the delivery technique. Also remember it is a Team work, and hence cohesiveness among participants and the school plays an important role.

8. After completing your interactive session with the school, obtain feedbacks from the school.

9. After completing interactive sessions at all the four schools, upload a report on the sessions along with the feedbacks as per format. These are important if you have to be considered for certificate / prize. - Note: About Rs 1.5 Lakhs is waiting to be taken as prizes.



PARTICIPATION IN EU-REKA 2021

Participation in Eu-Reka 2021 consists of four stages:

1. Registration: Initially, student teams must get registered for Eu-Reka 2021 by using specified Proforma and obtain Registration number ([Click here to Register](#)). This number must be quoted in all future correspondence. There is no fee for registration.

2. Interaction with school children: Each team must choose 4 high schools (inclusive of ONE school from rural area minimum).

In coordination with the school authorities, each team must fix suitable time slots for on-line interaction with the students of 8 /9/10th standard of these schools. There is a separate section on 'Guidelines for Interaction with School children & Process of Evaluation' for more details.

3. Report by each team: After interaction with ALL schools, the team must make a combined report on the the Interactive sessions with appropriate links for the proceedings and upload the same as per instructions.

4. 'Feedback' to be completed by school Authorities: Each school has to give an evaluation report in the format as per instructions. -- 4 reports are required. It is the responsibility of the participating team to ensure that the Feedback reports are signed by appropriate authorities of the school and uploaded before due date.



SELECTION PROCESS FOR AWARDS

Teams completing all the FOUR (minimum) participatory tasks are eligible for certificates / Prizes.

1. Selection for awarding certificate: Participation certificates will be issued to EACH member of the college team completing the FOUR participatory tasks.

2. Selection for awarding Prizes: Team Prizes will be awarded based on evaluation of Reports mentioned in Points 3 and 4 in the Section 'Participation in Eu-Reka 2021' and the points obtained according to next section based on recommendations of an Independent Board of Jury.

3. Award of Certificate to participating schools: All participating schools will be awarded 'Certificate of Participation'.

Decision by EU-REKA 2021 Organizing Committee is final in all matters.



A total of about Rs. 1,50,000 is proposed to be distributed as prizes.



PROCESS OF EVALUATION- EU-REKA 2021

Technical content in the delivery	25 Points
Motivational ability towards Eu-Reka's Aim and Objectives	25 Points
Use of Pedagogical tools (Such as Videos / Models / Demo/ PPT/ DIY etc)	15 Points
Use of IEEE educational resources (such as Try Engg /Learning Network/Dataport etc)	15 Points
Other points covered in the session (Scope for follow-up / Benefits for rural areas/ Women empowerment / Benefits to differently-abled etc)	15 Points
Selection of schools (1point for Urban; 2 points for Rural)	05 Points
Maximum Points	100 Points



FAQ ON IEEE

1. What is IEEE?

IEEE is the world's largest technical professional Organization dedicated to advancing Technology for the benefit of humanity. Established in 1884, IEEE has about 4.3 Lakh members spread over 160 Countries across the Globe.

2. Who can become a student member of IEEE? What are the benefits?

Any student of Science / Engineering colleges pursuing a full time Course can become a student member of IEEE. Please approach the IEEE Student Counsellor of your college or see www.ieee.org for more details.

3. Why is IEEE interested in conducting EU-REKA?

The motto of IEEE is to "advance Technology for Humanity". The best way of doing this is to disseminate information about the benefits of emerging technologies among the future citizens of our country. That is one of the main objectives of EU-REKA

4. How to become an IEEE student member?

Click on the following link to become an IEEE member.

The registration fee for each student is 27 USD and you will enjoy all the IEEE benefits till 31st December 2022. Students wishing to take advantage of the 50% discount can do so by using the promotion code FUTURE50 during the online check-out process for joining or renewing their IEEE membership.



FAQ ON EU-REKA 2021

1. Can students doing engineering other than Electronics participate in EU-REKA?

Yes; Eu-Reka 2021 is open for all Engineering college students (First to Final Year) doing Bachelor Degree in Engineering / Technology (any branch). This year Eu-Reka is open for students in Science Streams also.

2. Can students doing Science courses participate in EU-REKA?

This year, Eu-Reka 2021 is open for students doing full -time undergraduate courses in science/technology/Engineering streams. For any clarifications on this matter, you may contact Help Desk.

3. I am not an IEEE member. Can I participate in the program?

Yes; Suggest you join hands with an IEEE Student member to form a team, so that you can participate in the event. Still better would be for you to become a member of IEEE and reap all other benefits too. Becoming an IEEE member is very easy. There is a very simple on-line procedure you need to follow. Any of your fellow IEEE members can help you with this.

4. Can students from different colleges form a team to participate in EU-REKA?

Yes; There is no restriction from the organisers side, as far as the members can work together in a coherent manner with the team leader.



FAQ ON EU-REKA 2021

5. In my college, there are many students who are interested. Can there be many teams from the same college?

Yes, there can be many teams from the same college.

6. I am in a college outside Pune. Can I participate in the program?

Yes; this is a nation -wide program.

7. Should our team visit the schools for interaction sessions?

This year, we are allowing virtual as well as physical mode of interaction with the students. Please follow all procedures suggested by Government and local authorities. We highly suggest that the participants should ensure that they are vaccinated if they are planning to visit the schools for interaction sessions. However, please note that the mode of interaction won't be making any difference in the selection process for prizes.

8. What is the criteria for choosing schools? Can they be private schools?

The schools can be Private or Government schools. In case you are planning to have virtual interaction, please ensure that the schools have necessary network Infrastructure to support your on-line interactive session. Our help Desk can also provide help by providing names of schools in your area.



FAQ ON EU-REKA 2021

9. What are the guidelines to form a team?

The main guideline is that all team members should be able to work cohesively to complete the task within the given time frames. There can be 2/3/4 student members in a team, out of them at least 1 must be a girl student. At least one member of the team should be an IEEE member in the current year. Membership number of the IEEE member will be checked before accepting registration.

10. Can College staff member be part of a team?

No. No staff member can be part of a team. However, a team can have a mentor whose guidance can be taken for participating in the EU-REKA program. The mentor can be a staff member of the college or can be from Industry or elsewhere. The mentor need not be an IEEE member.

11. Can I participate in the program alone?

No. You have to be part of a team. EU-REKA is a team activity. One of the purposes of EU-REKA is to encourage team spirit.

12. How is the selection process done for giving away the prizes?

Please see the section on 'Eligibility Conditions for Eu-Reka 2021'.



FAQ ON EU-REKA 2021

13. Will there be a 2 -tier selection?

No. There will be only one central selection process at National Level. Please see the section on 'Eligibility Conditions for Eu-Reka 2021' for details.

14. What is the registration fee for participating in the program?

There will be no Registration fee. See section on 'Eligibility Conditions for Eu-Reka 2021'.

15. Will there be any financial support for participating in the program?

No. No financial support shall be provided by IEEE.

16. What benefits can I expect when I participate in the event?

Association with IEEE has always benefited students in many ways. See www.ieee.org for details. As a participant of EU-REKA 2021, you have plenty of opportunities to win prizes. Even if your team could not win a prize, each member of the participating team will be eligible for an IEEE certificate for having participated. However, for that your team must complete all the tasks allotted to you within the time frame.



FAQ ON EU-REKA 2021

17. What are the benefits for the college, whose students are participating in the event?

It has always been a privilege for a college to be associated with IEEE in some form or other. Thousands of colleges all over the world are trying hard for the same. If students of a college win a prize at the event, it is a matter of pride for the college. Many of the colleges in India are showcasing their association with IEEE in many ways.

18. What are the benefits for the schools participating in the program?

(a) School students (and teachers also) would be exposed to advanced state-of-the-art technologies. Last year more than 500 school staff from different parts of the country benefitted from the program.

(b) All participating schools will be awarded "Certificate of Participation".

(c) School teachers / authorities can establish contact with IEEE for future technological activities.



TIME SCHEDULE FOR EU-REKA 2021

Registration opens: 3 August 2021

Last date for Team Registration: 5 September 2021

(Individual registrations not allowed)

Slot for interaction with High school students:
15 Aug - 18 Sept 2021

Submission of all documents: 25 Sept 2021

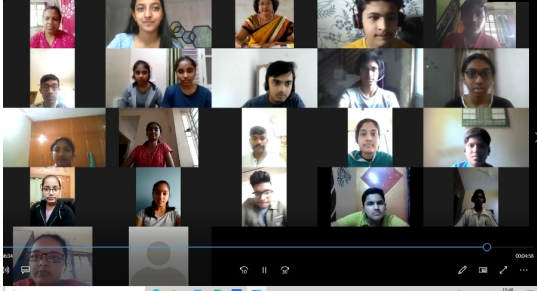
Evaluation by Jury: 28 Sept- 15 Oct 2021

End of Program Activities: Last week of Oct 2021





GLIMPSES OF EU-REKA PROGRAMS IN 2019 & 2020



Benefits of IEEE



- World's largest professional organization Headquartered in New York City
- Dedicated to advancing technological innovation and excellence
- Advancing technology for humanity 425,000 members in 160 countries
- Not-for profit

The premier source for technical content, IEEE Xplore has over 5 million documents and provides over 8 million downloads each month.

IEEE is also the most cited publisher in US and European new technology patents



IEEE, pronounced "Eye-triple-E," stands for the Institute of Electrical and Electronics Engineers. The association is



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For all updates, please follow Eu-Reka 2021 Website:

<http://eurekapunesecion.in/index.html>

For more details, contact Eu-Reka 2021 Help Desk:

+91 93706 07784

+91 90210 96590

Or mail your queries at:

ieee.eureka@gmail.com



WHY EU-REKA?

EU-REKA ENABLES YOU TO

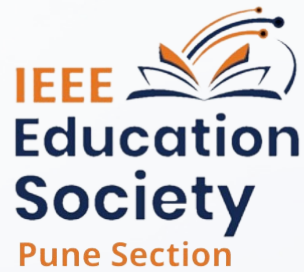


'Lend a hand' and contribute to the noble cause of Nation building through spread of Education

To network with like-minded people across the nation



Showcase your knowledge-sharing skills and win laurels



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Updated on August 28, 2021

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