

Date: 15th December 2023

DETAILS: IEEE-GRSS Student Chapter of Thakur College of Engineering and Technology organized the "SAHAYOG" Presentation competition on SDG for stem volunteer and school students' teams on December 15, 2023. This event aimed to support Sustainable Development to strategies the improvement of health and education, reduce inequality, and spur economic growth. The event, held on the Zoom platform.

PARTICIPANTS: School students and STEM volunteers of different Schools.

OBJECTIVES:

- Facilitate Knowledge Sharing
- Enhance STEM education.

FACULTIES INVOLVED:

Dr. Sukruti Kaulgud - Chapter Advisor IEEE-GRSS, TCET.

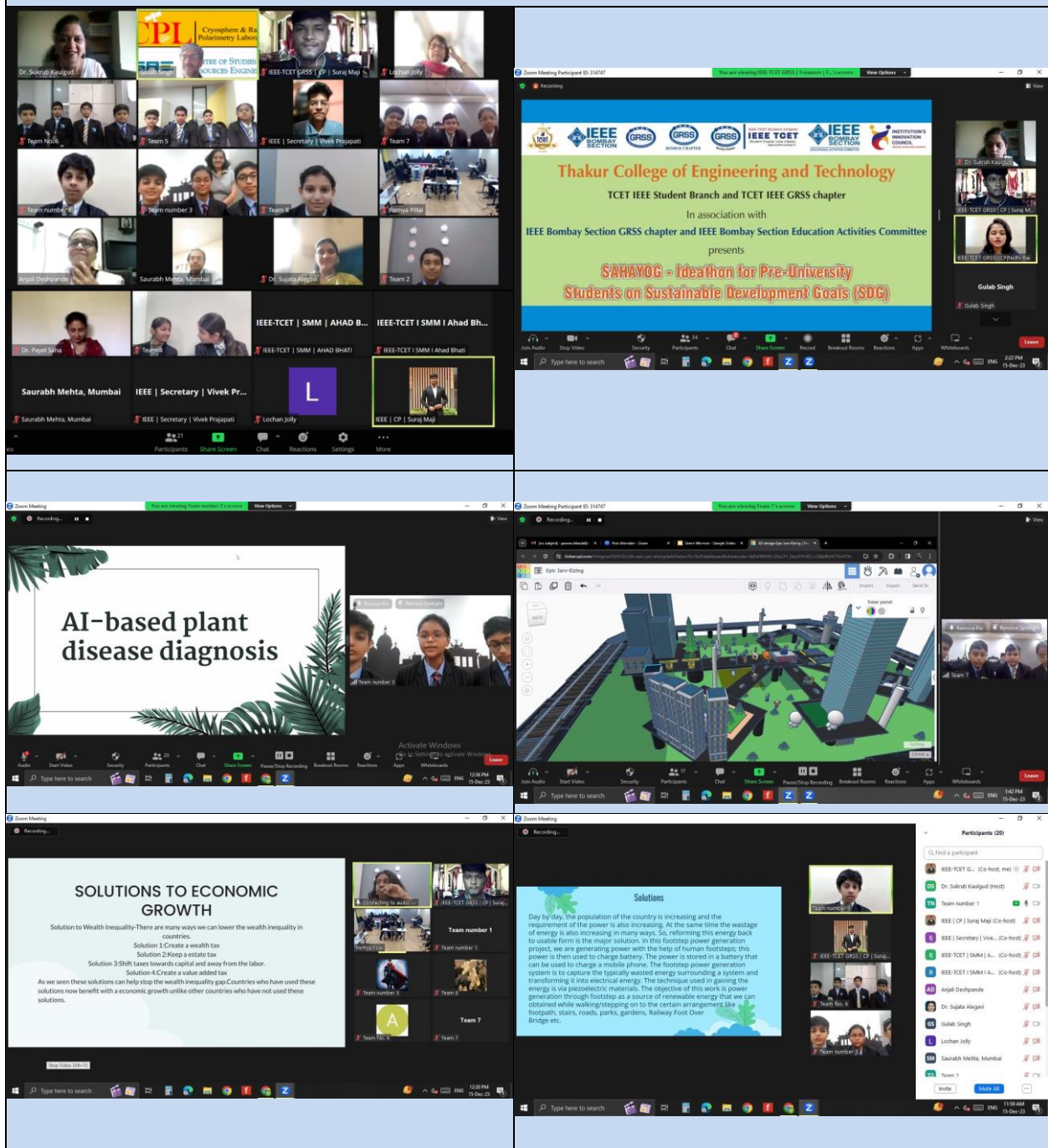
EVENT DETAILS:

On December 15, 2023, the IEEE GRSS TCET Student Chapter organized the "SAHAYOG" Presentation Competition, focused on Sustainable Development Goals (SDGs) for STEM volunteers and school student teams. The event was held on Zoom Platform. The event was initiated with a soulful rendition of Saraswati Vandana followed by an introductory speech given by Mr Suraj Maji, the Chairperson of IEEE GRSS TCET Student chapter . The event's structure included impactful presentations, each team offering insights into SDG-related topics, emphasizing innovative solutions. Dr.,Sukruti Kaulgud Ma'am introduced the competition, and with Payal Ma'am, Lochan Maam, and Dr, Gulab Singh Sir, along with Saurabh Mehta Sir, serving as chief guests, provided valuable perspectives on the importance of addressing SDGs.

The "SAHAYOG" competition is a product of collaboration between the IEEE TCET GRSS chapter, IEEE Bombay Section GRSS chapter, and IEEE Bombay Section EAC Committee. Through hands-on learning and problem-solving, this project aims to close the gap between STEM volunteers from various engineering universities and school studentsTeams in the SAHAYOG tournament are made up of school students and STEM volunteers. Each team chooses a topic that is in line with a Sustainable Development Goal (SDG). Teams can consist of up to four school kids and a maximum of two volunteers. STEM volunteers are essential in assisting school kids in developing technical solutions for the selected SDG-related problem by serving as mentors and guides. The competition culminates in presentations by school students, where they showcase their proposed technological solutions, demonstrating a practical application of STEM principles. Teams consisted of up to four school kids and a maximum of two volunteers. As a result of this partnership, several projects were showcased such as Electricity Generation Piezo, AI-Based Plant Diagnosis, Neuroscript - Thoughts to Words, E-Smart Air Cooler, Chronus App, Ecospace Philosophy, Symphony for Solidarity.The joint endeavour of the IEEE GRSS chapter of TCET, the IEEE Bombay Section GRSS chapter, and the IEEE Bombay Section EAC Committee highlights a mutual dedication to promoting STEM education and fostering significant relationships between future engineers and the younger generations

Judges evaluate the teams based on the quality of their technological solutions, the effectiveness of their presentations, and their teamwork. A fair and competitive environment was assured by Sukruti Maam's diligent administration of the competition's rules and directives. As Suraj Maji aptly concluded, the event not only showcased innovative ideas but also inspired participants to actively contribute to sustainable development. The positive feedback from participants and judges affirms the success of "SAHAYOG" in fostering awareness, collaboration, and a commitment to creating a more sustainable future.

PICTURES OF THE EVENT:



PARTICIPATION ANALYSIS:

Institute	Number of participants
NES International School Mumbai	21
Vibgyor High	4
Oxford Public School	8
Bharatmata Vidyalaya	6
Thakur College of Science and Commerce	2
Adv. Bapusaheb Bhonde High School	4
Total	45

FEEDBACK:



Group 1
Timing 11.30

Team no.	Mentor Teacher name	Student Participants	Project Title	SDG goal	School Name	Zoom link
1.	Veena Baburaj Namboodiri	Rajveer Doshi	Water Pollution Monitor or Water Trash Collector or Footsteps power generation system	Goal 6: Ensure availability and sustainable management of water and sanitation for all, Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development	NES International IB World School Mumbai Mulund	https://zoom.us/j/94517966301?pwd=dVdDN3dONEtEdHV0cWxTRXNoMEs3Zz09 Meeting ID: 945 1796 6301 Passcode: 280531
2.	Veena Baburaj Namboodiri	Ayush Medhekar	Problems and Solutions to Sustainable Economic Growth	Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	NES international school	
3.	Ranjana Ashokan	Krupa Sulakhi Arjun Pawar Samarth Agarwal Aaryaman Sharma	AI-Powered Plant Disease Diagnosis	Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages, Goal 12: Ensure sustainable consumption and production patterns, Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	NES International School Mumbai	
4.	Ms. Ranjana Ashokan	Niddhi Bhadra Arpita Chougule	"ReforestNation: A Movement to Restore and Expand Forest Ecosystems"	Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	NES International School Mumbai	

5.	Remya Nair	Pravin Carthic Aanyaa Garatkar Shivaansh Sharma Mahiv Visaria	Ecolumina Sanctum	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development	NES International School Mumbai	
6.	Rahul Yadav	Yug Ramteke Jash Chauhan Amogh Ajay Noah Murthaty	GreenSpore Packaging	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and production patterns, Goal 13: Take urgent action to combat climate change and its impacts, Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	NES International School Mumbai	
7.	Rahul Yadav	Param Chheda Daksh Pichholiya Ritvi Thakker Dhruvin Lapasia	Green Warriors	Goal 13: Take urgent action to combat climate change and its impacts	NES International School Mumbai	
8.	Remya Pillai	Anvi Sharma	Sustainable Street Lights	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and	NES International School Mumbai	

				production patterns		
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Group 2
Timing: 2.00pm

Team no.	Mentor Teacher name	Student Participants	Project Title	SDG goal	School Name	Zoom link
1.	Aqsa Temrikar	Ramsha Saherwala Vihaan Kapadia Ronit Khanna Noorah Fatema Campwalla	E - smart air cooler	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and production patterns	Vibgyor High	https://zoom.us/j/94497319671?pwd=RFZlYWlo5TzAyYThQVlVlaTN3aGpPQT09 Meeting ID: 944 9731 9671 Passcode: 381656
2.	Ms. Mallika Bimal Upadhyay	DHAIRYA LADE HEET TRIVEDI	IOT Automated Greenhouse	Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages	Oxford Public School	
3.	Ms. Mallika Bimal Upadhyay	TRISHA SHAH SARTHAK SHARMA VED CHOTALIA	Waste segregation and Management	Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development	Oxford Public School	
4.	Mr. Manoj Sankhe	Sahil Saroj Suraj Yadav Fatima Shah	Appointment booking system for govt officials to increase vigilance	Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all, Goal 10: Reduce inequality within and among countries	Bharatmata Vidyalaya	
5.	Mr. Manoj Sankhe	Yash Gawale Omkar Baikar Asmita Pakhare	Umbrella Medical App	Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages, Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all Goal 5: Achieve gender	Bharatmata Vidyalaya	

				equality and empower all women and girls		
6.	Mr. Satayendra Mishra	Suraj Pal Sanjay Gupta	Digital health technologies	Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture Goal 3: Ensure healthy lives and promote well-being for all at all ages	Thakur College of Science and Commerce	
7.	Swanandi Samir Haram	Revati Bhosale Hetvi Rathod	ECOSPACE	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and production patterns, Goal 13: Take urgent action to combat climate change and its impacts	Oxford Public school	
8.	Dr. Sanjay Bapurao Pujari	Ritesh Gaikwad Prathemesh Ritam Mali Aaliya Baig	Symphony of Solidarity: Initiative for reducing socioeconomic inequalities worldwide.	Goal 10: Reduce inequality within and among countries	Adv. Bapusaheb Bhonde High School	

WINNERS

Mentor Teacher name	Student Participants	Project Title	SDG goal	School Name	Rank
Ms. Remya Nair	Rajveer Doshi	Water Pollution Monitor or Water Trash Collector or Footsteps power generation system	Goal 6: Ensure availability and sustainable management of water and sanitation for all, Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development	NES International IB World School Mumbai Mulund	1
Swanandi Samir Haram	Revati Bhosale Hetvi Rathod	ECOSPACE	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and production patterns, Goal 13: Take urgent action to combat climate change and its impacts	Oxford Public school	1
Ms. Remya Nair	Niddhi Bhadra Arpita Chougule	NeuroScript	To decode the complex language of the brain and turn its intricate neuron patterns into written words. Picture a world where thoughts are easily transformed into writing, expanding human understanding beyond the limits of the mind through the power of technology.	NES International School Mumbai	2
Ms. Remya Nair	Yug Ramteke Jash Chauhan Amogh Ajay Noah Murthaty	GreenSpore Packaging	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and production patterns, Goal 13: Take urgent action to combat climate change	NES International School Mumbai	2

			and its impacts, Goal 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss		
Mr. Manoj Sankhe	Sahil Saroj Suraj Yadav Fatima Shah	Appointment booking system for govt officials to increase vigilance	Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all, Goal 10: Reduce inequality within and among countries	Bharatmata Vidyalaya	3
Aqsa Temrikar	Ramsha Saherwala Vihaan Kapadia Ronit Khanna Noorah Fatema Campwalla	E - smart air cooler	Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all, Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable, Goal 12: Ensure sustainable consumption and production patterns	Vibgyor High	Consolation

SWOT ANALYSIS:

SR.NO	STRENGTH	WEAKNESS	OPPORTUNITY	THREAT
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1	Being conducted by the IEEE GRSS TCET Student Chapter lent credibility and support to the event, enhancing its reputation	Conducting the event on Zoom might have limited the level of engagement compared to an in-person event, potentially affecting the overall experience	Opportunities exist to expand participation in future editions, involving more STEM volunteers, schools, and potentially reaching a broader audience	Limited access to technology or a lack of technological infrastructure in some participating schools may pose challenges in implementing certain projects.
2	The presence of experienced judges, added prestige and ensured fair evaluation	The virtual setting may have imposed time constraints, limiting the depth of presentations and interactions among participants	Participants and judges may use the event as a networking opportunity, fostering future collaborations and partnerships	Similar events or competitions held around the same time may divert potential participants and judges, impacting the overall success of "SAHAYOG".

Mr. Vivek Prajapati
 Secretary,
 IEEE-GRSS, TCET 2023-24

Mr. Suraj Maji
 Chairperson,
 IEEE-GRSS, TCET 2023-24

Dr. Sukruti Kaulgud
 Chapter Advisor,
 IEEE-GRSS, TCET

Dr. Lochan Jolly
 Branch Counsellor
 IEEE-TCET