



Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [ViMEET]
Affiliated to University of Mumbai, Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade (1st Cycle)
DTE CODE: EN 3467

**Survey No.52, Kumbhivali, Near Khalapur Toll Naka, Off. Mumbai-Pune Expressway, Tal- Khalapur,
Dist. Raigad Pin- 410 202 Contact No-+91 9766783646**

Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Department of Civil Engineering

STTP on Climate change Mitigation & Adaptation

Since the beginning of industrial revolution, our planet has suffered rapid changes in climate that include increasingly severe droughts, increased depletion of groundwater reserves, seawater acidification, rising seawater levels, the rapid spread of diseases, and the extinction of species. Unless we intervene, these gradual climatic changes may prove irreversible. Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil, and gas.

When it comes to tackling climate change to minimise the impacts it causes in the different systems of the our Eart , the human being applies two types of measures: mitigation and adaptation. Mitigation measures are collective actions that are taken to reduce and control greenhouse gas emissions, essentially reducing the flow of heat-trapping greenhouse gases into the atmosphere while adaptation measures are based on minimising vulnerability to the effects of climate change and possible adjustment to actual or expected future climate. Mitigation, therefore, attends to the causes of climate change, while adaptation addresses its impacts.

Department of civil Engineering, Vishwaniketan's Institute Of Management Entrepreneurship & Engineering Technology (ViMEET). ViMEET is much sensitive toward environmental issues and continuously working through critical thinking, problem-solving and decision-making skills to protect our own environment and mitigation measures for climate changes. In this context Civil Department in



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association with IGBC (Indian Green Building Council) organised a short term training program (STTP) to towards the systematic understanding of how the timing and magnitude of impacts are likely to be affected by changes in climate and sea level and more to minimise the effect on human and it's environment.

Planning to organise short term training program to elaborate an overview on changing world, enhance knowledge of changing world's climate and its likely effect on man and materials. The main objective of proposed short term training programme will be:

- To understand process and responses of climate change
- Review the principal impacts and vulnerabilities to climate change for the case study
- To find out optimum alternate sustainable energy resources
- To understand need and benefit of green technology: Green building concept.

The major topic covered:

1. Climate Change: natural or anthropogenic
2. Sea Level Changes: Present and futures
3. Changing Environment: Water and air quality
4. Use of remote sensing and GIS in Climate change Monitoring
5. Prevention and Mitigation/ Sustainable approach towards climate change
6. Sustainable energy resources: Green hydrogen⁷
7. Green building: Present scenario and future prospect

More than fifty-five participants from PAN INDIA have attended the event. Participants from Jammu & Kashmir, Indian Institute of Technology, Hyderabad, KLE technological university, Hubly, NIT Surat, Rajasthan and various college of University of Mumbai registered for the event.



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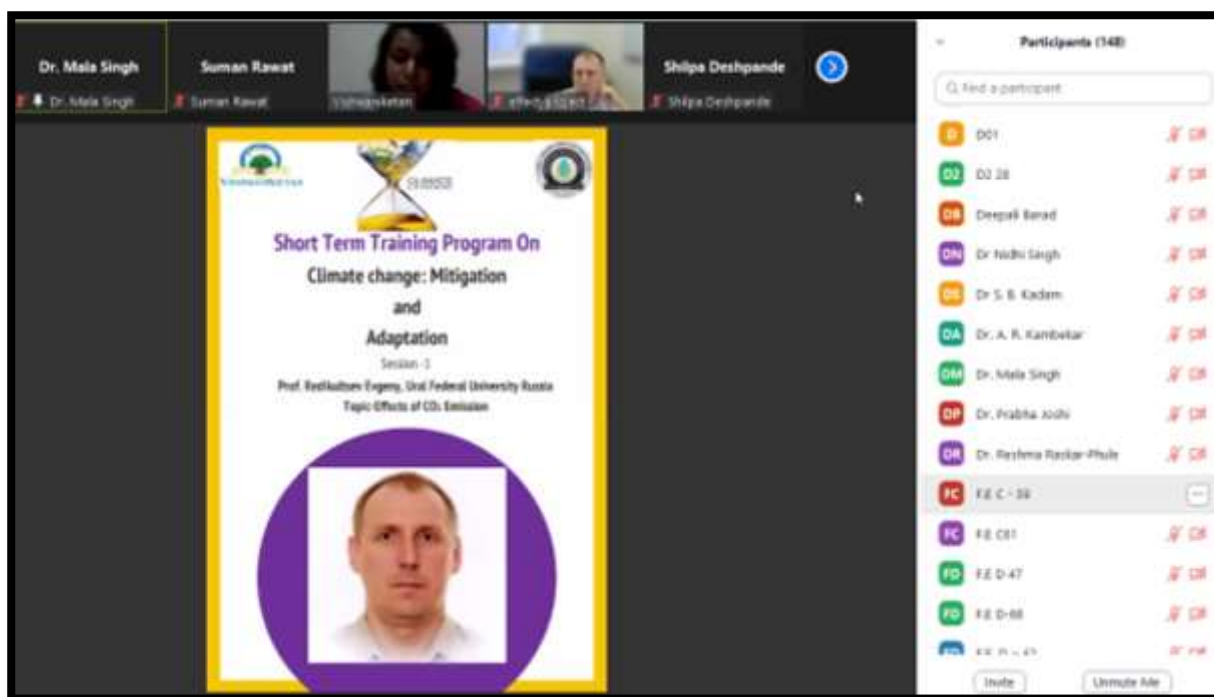
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Resource persons with remarkable work in the field of climate changes, from India and across the India, was invited as the speakers for the session. Prof. Evgeny Redikultsev, Civil Engineering, Ural Federal University , Russia, Lieut, Dr. Pankaj Mehta, Department of Environmental Sciences, Central University of Jammu, Dr. A. R. Kambekar, Sardar Patel College of Engineering, Mumbai, Prof. Giulia Costa, Environmental Engineering, University of Rome "Tor-Vergatta", Italy, Dr. Sandeepan Mukherjee, Ministry of Environment, Forest & Climate Change, Govt. of India, Delhi, Dr. S.D. Purohit, Former Dean and Faculty Chairman Department of Biotechnology, Mohanlal Sukhadia University Udaipur, C.M. Bhatt, Indian Institute Of Remote Sensing, Indian Space Research Organisation, Ar. Neha N. Saggam, Confederation of Indian Industry, IGBC, Hyderabad have presented their valuable insides.





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The screenshot shows a Zoom meeting interface. The main window displays a Microsoft PowerPoint slide titled "Global Sea Level Rise". The slide content includes:

- SATELLITE DATA: 1993-PRESENT**
- Line graph showing sea level rise from 1993 to 2018.
- Text: "Rise around 102.5 mm (about 4 inches) in 25 years." and "102.5 millimeters"
- Source: <https://climate.nasa.gov/vital-signs/sea-level/>

Below the graph, it states: "Sea level rise is caused primarily by two factors related to global warming: the added water from melting ice sheets and glaciers, and the expansion of..."

The Zoom interface also shows a "Participants (8)" list on the right side:

Participant Name	Status
Suman Rawat (Co-host, M)	On
Vishwaniketan (Host)	On
Linut. Dr. Patil (Co-host)	On
Palavi Dongare (Co-host)	On
Dr. Atul Srivastha	Off
Dr. Ketan Patil	Off
Dr. Anil Wadh	Off
Dr. Abhishek Bhatnagar	Off
Dr. Akshay Bhatnagar	Off
Dr. Anurag Kour	Off
Dr. Adesh Kolekar	Off
Dr. Dr. Chiraj Jayesh Shete	Off
Dr. Dr. Chiraj Patil Pansar	Off
Dr. Dipjyoti Patil	Off