



IIT BOMBAY

8<sup>th</sup> e-School

on

# CLIMATE SCIENCE & POLICY

Online | 16-27 August 2021

# CLIMATE

Register here: <https://rb.gy/0bfn2m>

**Last date for registration: 10 August 2021**

*Kindly note no certificates will be provided*

Organized by  
Interdisciplinary Programme in Climate Studies  
Indian Institute of Technology Bombay  
Powai, Mumbai – 400076

Supported by  
Department of Science & Technology sponsored  
Centre of Excellence in Climate Studies (DST-CoECS)  
IIT Bombay

# Who can apply?

## Eligibility requirements to apply for the e-School:

- Pre-final or final year students
- Enrolled in any of these programmes: BE/B.Tech, ME, M.Tech, M. Planning, M.Sc or Ph.D.
- Government, NGO or industry professionals

**Registration form:** <https://rb.gy/0bfn2m>

Registration is free for everyone.

Last date for registration: **10th August 2021**

**Kindly note that no participation certificate shall be issued.**

## Lecture themes:

- Climate Science
- Observations and Modelling
- Impacts Assessment and Vulnerability
- Mitigation and Adaptation
- Climate Policy

**Lecture timing**

**5 - 6:30 PM**

# Why should you attend?

The e-School aims to draw the attention of outstanding students towards exciting research areas in climate studies. The course content will include lectures and tutorials on climate science and policy by IIT Bombay faculty.

## About IDP in Climate Studies, IIT Bombay

- The Interdisciplinary programme in Climate Studies (IDPCS) was initiated at the Indian Institute of Technology Bombay, in January 2012, as one of the first doctoral programmes in India addressing research related to climate change.
- It undertakes interdisciplinary, problem driven research and teaching for end-to-end analysis of climate change issues. Its research activities focus on key areas within climate change, such as regional climate perturbation and impact, assessment of technologies for mitigation, and evaluation of vulnerability and adaptation to climate change.
- Over 29 faculty participants are drawn from 11 departments across IIT Bombay, with expertise in climate science, technology assessment and policy. Currently, 65 PhD students are enrolled.

# Mission Statement

## **Education:**

To evolve an interdisciplinary doctoral curriculum, special courses for undergraduate and postgraduate students and to serve continuing education needs of professionals.

## **Research:**

To undertake high-impact, multi-disciplinary, problem-driven research for end-to-end solutions to climate change. To build long-term scientific capacity and systems for study of regional climate change and climate futures.

## **Human Resource Development:**

To enable the creation of a pool of multi-disciplinary researchers to serve the growing need for climate change professionals.

## **Government and Industry Interaction:**

To provide critical assessments to support policy and governmental decision-making. To serve public and private sector entities catering to clean energy and climate advisories and services.

# Major Focus Areas

## Climate Science

- Detection, attribution and prediction of climate extremes
  - Factors affecting the Indian monsoon
- Aerosol radiative processes, effects on clouds and rainfall
  - LES of cloud processes
  - Causality analysis and data assimilation
  - Impacts on hydrology and water resources
  - Climate change impacts on ocean processes

## Vulnerability Assessment and Adaptation

- Climate sensitive sectors and poverty
- Natural disaster and human impacts
  - Climate change impacts on cities
- Social & economic implications of climate change
  - Climate change policy & governance
    - Low carbon development

## Mitigation and Policy

- Competitiveness and sustainability for climate mitigation
  - Strategies for low-carbon development
- Assessment of climate change policies and mechanisms
  - Enhanced carbon capture systems
  - Multi-criteria mitigation assessment

# Overview of 2020 e-school

ATTENDEES FROM  
20+ COUNTRIES

12 FACULTY MEMBERS  
12 SESSIONS

15.6 HOURS OF  
LEARNING

Effectiveness of e-school as  
rated by participants

9/10

Lectures from e-School 2020 can be found here

**IDP Climate YouTube channel link:**

<https://www.youtube.com/channel/UCZFSMwZckmVZ3QUtaBv0z8Q>

**1000+**  
**REGISTRATIONS\***

**\* Academic institutions:** IISc Bangalore, several (IITs, IIMs, IISERs, NITs, SPAs), TISS, Jamia, JNU, BHU, TERI and many regional govt/private universities, TU-Dresden, Delft, Max Planck, NTU Singapore etc.

**NGOs:** UNICEF, WWF India, Aga Khan Agency for Habitat, Aga Khan Development Network, World Resources Institute etc.

**GOVT organizations:** CSIR-NEERI, Coal India, Bokaro Forest Dept, NIDM, Bureau of Energy Efficiency, MHUA, MERC, MMRC, MCGM etc.

**Industry:** Accenture, ACC, Cognizant, CRISIL, Eaton, E&Y, IBM, KPMG, L&T, PWC, Tata etc.

# CONNECT WITH US

IDP in Climate Studies

IIT Bombay

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Mumbai-400076

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<https://www.climate.iitb.ac.in>



IIT BOMBAY

Short video about IDPCS - <https://vimeo.com/iitbombay/idpcs>



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## Coordinators

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