



## One Month Certificate Course

on

### *“Green Technology for Mitigating Climate Change”*

Organized by

Amity Institute of Environmental Sciences  
Amity University, Noida

In association with

31<sup>st</sup> Aug 2023 to 29<sup>th</sup> Sept 2023



## REPORT

The One Month Certificate Course On “Green Technology for Mitigating Climate Change” from 31<sup>st</sup>-Aug 2023 to 29<sup>th</sup> Sept 2023 was conducted on a virtual platform.

The program was conducted by Amity Institute of Environmental Sciences with the blessings of **Honorable Founder President – Dr. Ashok Kumar Chauhan Sir.**

Under the continuous guidance and encouragement from **Honourable Vice-Chancellor Madam** the one month certificate course was conducted.

The certificate course highlighted the importance of the issue of Climate Change.

With the aim to create awareness amongst the University and college faculty Community and to upskill them in Green technology for mitigating climate change. Environmental Sciences domain conducted one month certificate course including technical lectures and assessments.

The deliberations by resource persons encompassed wide ranging topics and critical issues such as climate change, sustainable solutions, renewable energy, and eco-friendly practices.

- The event was started by INAUGURAL FUNCTION. Dr. Juhi Gupta introduced us with the theme of the course on behalf of Amity Institute of Environmental Science.



- As a tradition and culture, the event began with the Saraswati Vandana followed with the blessings of almighty and lightening of the lamp. All the guests have participated in the virtual lighting of the ceremony.

- The event further progressed with the welcome address delivered by Dr. Anamika Srivastava. She introduced us with the one month course and the collaboration between AIES Amity University and Indian Meteorological Department and Leads nexTech India pvt. Ltd.



- Dr. Renu Dhupper gave an elaborative introduction about the one month course “Green Technology For Mitigating Climate Change” and the topics being covered within the course.



- The event was further continued with the introduction of our Mentor of NRES domain, **Prof. (Dr.) D K Bandyopadhyay** Chief Advisor (FPO); Chairman (Amity Law Schools),  
Our Respected Vice Chancellor madam, **Prof. Balvinder Shukla** Ma'am.

**Our Guest of Honour: Dr. D. S. Pai** (Sc-G and Head NWP, EMRC, PMRD, UMCC)

**Mr. Navneet Ravikar** Founder & Managing Director – Leads

NexTech India Pvt. Ltd Group Chairman – Leads Group

**Mr. Amitava Sen** Vice President Strategic and Compliances; Deshwal

Waste management company

**Eminent Speakers for topic “Introduction to Green Technology & Climate Change”:**

**Dr. D.R. Pattanaik** Head, Numerical Weather Prediction Division,

India Meteorological Department, New Delhi

**Dr. V.K. Soni** Scientist-F India Meteorological Department, New Delhi

**Ms. Pallavi Bishnoi** National Consultant; PTB- Ganga Project

**Eminent Speakers for topic “Renewable Energy and its efficiency”:**

**Prof. Vinod Pravin Sharma** Chief Scientist and Prof AcSIR

CSIR-Indian Institute of Toxicology Research Lucknow

**Prof. V. K. Jain** Distinguished Scientist & Professor Amity Institute of

Renewable and Alternative Energy, Amity University, Noida

**Professor P. K. Bhatnagar** Distinguished faculty at Jamia Millia  
Islamia.

**Eminent Speakers for topic “Waste Management and circular economy”:**

**Dr. Monika Koul** Professor Department of Botany Hansraj College,  
University of Delhi

**Dr. Pranata Hazra** Remote Sensing & GIS Analyst Leads NexTech  
India Pvt.Ltd

**Mr. Rakesh Saur** Technical Consultant – Remote Sensing, Leads  
NexTech India Pvt. Ltd. Noida, Uttar Pradesh – India.

**Eminent Speakers for topic “Sustainable Agriculture & Green infrastructure”:**

**Dr. K. Karthikeyan** Senior Scientist, ICAR-NBSS&LUP, NAGPUR

**Dr. Amar Kumar Kathwas** Senior Agriculture Remote Sensing  
SpecialistLeads NexTech India Pvt. Ltd.

**Dr. Achchhelal Yadav** Senior Scientist Division of Agricultural Physics  
ICAR- Indian Agricultural Research Institute

**Eminent Speakers for topic “Climate modeling and projections”:**

**Dr. Atul Kumar Srivastawa** Scientist-E & Officer-In-Charge Indian  
Institute of Tropical Meteorology (Delhi Branch) [Ministry of Earth  
Sciences]

**Dr. (Prof.) Akhouri Pramod Krishna** Department of Remote Sensing  
Birla Institute of Technology, Mesra

**Dr. Alok B Mukherjee** Co-Founder & Director – Product, Research &  
Analytics, Leads NexTech India Pvt. Ltd., Noida, Uttar Pradesh –

India.

**Eminent Speakers for topic “Innovative Green Technologies & The Future”**

**Dr. Lal Singh** Director, HRG, Shimla

**Mr. Bharath Settipally** Co-Founder & Director- Technology & Product  
Development

**Mr. Manish Kumar Shrivastava** Associate Director, Earth  
Science and Climate Change, TERI

**Dr. Maya Kumari** Asst. Professor (Grade III) Amity School of Natural  
Resources and Sustainable Development

- Mentor of NRES domain, Prof. (Dr.) D K Bandyopadhyay Chief Advisor (FPO); Chairman (Amity Law Schools), then addressed the gathering mentioning climate changes and importance of green technology to overcome climate action.



The sessions further continued with welcoming and deliberations by our guest of honor Dr D.S pai, Mr Navneet Ravikar and Mr. Amitava Sen.

- The Inaugural session ended with a quiz for all the students

In the end vote of Thanks was delivered by **Dr. Anamika Srivastava**.

AFTER INAUGURAL FUNCTION, The sessions of the One Month Course started with lectures and deliberations by eminent resource persons.

On the first day session **Dr. Pattanaik** Head,  
Numerical Weather Prediction Division, India  
Meteorological Department, New Delhi brought the  
limelight on climate change and its consequences:  
Adaptation and Mitigation.



**After him Dr. V.K. Soni** Scientist-F  
India Meteorological Department, New Delhi  
explained about Environmental Monitoring and  
Meteorological Services for Renewable Energy Sector.



**Followed by a documentary on “Our Planet Our Business”** and a questionnaire round open  
to everyone.

Vote of thanks was given by **Dr. Charu Singh**.

## **Session 2**

**Dr. Monika Koul** Professor Department of Botany Hansraj College, University of Delhi  
engaged all with her presentation on Waste Management And Circular Economy: Focus on  
Solid Waste Management. She talked about the strategies to adopt for waste disposal and how

solid waste management is the key to achieve all the Sustainable Development Goals. She also discussed the circular economy and the importance of minimizing waste.



**Followed by Dr. Pranata Hazra** Remote Sensing & GIS Analyst Leads NexTech India Pvt.Ltd introduced us

with Space-tech for solid waste management and sustainability. She talked about the methods, challenges and space based solutions for solid waste management. She also explained the role of remote sensing and GIS in identification of landfill sites.

**And Mr. Rakesh Saur** Technical Consultant – Remote Sensing, Leads NexTech India Pvt. Ltd. Noida, Uttar Pradesh – India. He told us the significance of Solid Waste Management Practices in Environmental Sustainable and Circular Economy. He briefed us about the different types of wastes and total generation of waste in different



cities of India. He also introduced us with how to generate of Electricity from waste.

**After him a documentary on “Most Polluted Cities ”** was shown which was then followed by an engaging discussion.

Vote of thanks was given by **Dr. Harshita Jain.**

### Session 3

**Our speaker Dr. K. Karthikeyan** Senior Scientist, ICAR-NBSS&LUP, NAGPUR engaged all in the management of Soil Resources for Sustainable Production.



**Our speaker Dr. Amar Kumar Kathwas** Senior Agriculture Remote Sensing Specialist Leads NexTech India Pvt. Ltd. He introduced us with Space Technology Based Climate Resilient Agriculture. He talked about Climate Change impacts on different resources and the importance of Climate Resilient Agriculture.



**Our speaker Dr. Achchhelal Yadav** Senior Scientist Division of Agricultural Physics ICAR- Indian Agricultural Research Institute delivered a special talk on Synthesis Characterization of Zinc Oxide and Ferric Oxide nanoparticles and their application in crops.



**Followed by a documentary** and an engaging questionnaire round.

Vote of thanks was given by **Dr. Richa Pahariya**.



## Session 4

**Our speaker Prof. Vinod Pravin Sharma** Chief Scientist and Prof AcSIR CSIR-Indian Institute of Toxicology Research Lucknow engaged all in Waste Management And Circular Economy: Importance and Current Strategies. He talked about the alternate energy sources and how we can meet sustainable development goals.



**Our speaker Prof. V. K. Jain** Distinguished Scientist & Professor Amity Institute of Renewable and Alternative Energy, Amity University, Noida talked about Energy Conservation through Renewable Sources.



**Our Speaker Professor P. K. Bhatnagar** Distinguished faculty at Jamia Millia Islamia. Presented a special talk on Renewable Energy and its Efficiency. He talked about causes of climate change and its effects and also the scenario of renewable energy in India. He concluded with the importance of adopting renewable energy.



The session concluded with a questionnaire round and a quiz for all the students.

Vote of Thanks was given by **Dr. Charu Singh**.

## Session 5

### Our Speaker Dr. Atul Kumar Srivastawa

Scientist-E & Officer-In-Charge Indian Institute of Tropical Meteorology (Delhi Branch) [Ministry of Earth Sciences] engaged us with his presentation on “Atmospheric Aerosols: Unrevealing the characteristics and its role in climate forcing.”



### Our Speaker Dr. (Prof.) Akhouri Pramod Krishna

Department of Remote Sensing Birla Institute of Technology, Mesra taught us Climate Modelling and Projections, its concepts and history.



**Our Speaker Dr. Alok B Mukherjee** Co-Founder & Director – Product, Research & Analytics, Leads NexTech India Pvt. Ltd., Noida, Uttar Pradesh – India. Presented a special talk on “Game Theory



based Causal-AI driven analytics for Climate Modelling”.

**Followed by Dr. Maya Kumari** Assistant professor Amity School of Natural Sciences & Sustainable Development. She gave an introduction to Remote Sensing And GIS software. She also taught us how to download and use the data.

Vote of thanks was given by **Dr. Umamah Mufti**

