

Conference Cum Training

on

**“Climate-Induced Hydrological Disasters,  
Policies & Management”**

7th-9th October 2021

*We welcome you to this insightful journey of three days conference  
cum training, you are requested to join us*

**Summary Report**

**3-Days Online Training on**

***“Climate Induced, Hydrological Disasters, Policies and Management”***

**07th- 09th October 2021**

**Organized by the**

**National Institute of Disaster Management,  
Ministry of Home Affairs, Government of India**

**&**

**Amity Institute of Environmental Sciences, Amity  
University, Uttar Pradesh**

**&**

**Amity University Patna, Bihar**

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## INTRODUCTION

### ABOUT AMITY UNIVERSITY



At Amity we are passionate about grooming leaders who are not only thorough professionals but also good human beings with values and Sanskars. The Amity University has been established by an act of State Legislature and recognized by University Grants Commission (UGC) through the Act of State Legislature. **4500 Academicians, Scientists & Researchers Led By 11 Former Vice Chancellors** Amity has some of the most talented and dedicated thought leaders in the country who come from the best institutions around the world.

Amity institutions are constantly ranked amongst the top. Ranked India's # 1 Not-For-Profit Pvt. University in India. Amity Business School has been ranked amongst the Top- 10 B. Schools by Times B. School Survey. At Amity we benchmark only against the best institutions around the world. Our faculty and senior team travel all over the globe to learn and imbibe the best practices so that we can give a solid foundation for learning.

As part of this endeavour, we have air-conditioned amphitheater style classrooms that provide the most conducive atmosphere for dynamic and focused discussions, while the libraries at our campus are equipped with over 1,00,000 books, periodicals, national and international journals, CD-ROMS, covering all aspects of academic studies and research material. The hi-tech labs act as ideal training grounds for budding professionals that allow students to experiment and bring to practice what they have learnt in theory.

All Amity locations are connected to Amity University Campus, Noida over MPLS VPN Network, enabling us to transmit Live Classrooms to all locations through eLearning Solution and IP Cameras. Over 1000 acres of hi-tech campuses, spread over 4.5 million sq. ft. of built-up area, it is India's first wireless campus with over 4,000 networked HP/IBM machines, 600 MBPS broadband connectivity. All campuses of Amity are interconnected through a highly secured virtual private network and is the most advanced online counseling system facilitates quick response to queries

## ABOUT NIDM



National Institute of Disaster Management (NIDM) was constituted under an Act of Parliament with a vision to play the role of a premier institute for capacity development in India and the region. The efforts in this direction that began with the formation of the National Centre for Disaster Management (NCDM) in 1995 gained impetus with its redesignation as the National Institute of Disaster Management (NIDM) for training and capacity development. Under the Disaster Management Act 2005, NIDM has been assigned nodal responsibilities for human resource development, capacity building, training, research, documentation and policy advocacy in the field of disaster management. Both as a national Centre and then as the national Institute, NIDM has performed a crucial role in bringing disaster risk reduction to the forefront of the national agenda. The Institute believes that disaster risk reduction is possible only through promotion of a "Culture of Prevention" involving all stakeholders. The Institute works through strategic partnerships with various ministries and departments of the central, state and local governments, academic, research and technical organizations in India and abroad and other bi-lateral and multi-lateral international agencies. NIDM is proud to have a multi-disciplinary core team of professionals working in various aspects of disaster management. In its endeavor to facilitate training and capacity development, the Institute has state-of-the-art facilities like classrooms, seminar hall and video-conferencing facilities etc. The Institute has a well-stocked library exclusively on the theme of disaster management and mitigation. The Institute provides training in face-to-face, on-line and self-learning mode as well as satellite-based training. In-house and off-campus face-to-face training to the officials of the state governments is provided free of charge including modest boarding and lodging facilities. NIDM provides Capacity Building support to various National and State level agencies in the field of Disaster Management & Disaster Risk Reduction. The Institute's vision is to create a Disaster Resilient India by building the capacity at all levels for disaster prevention and preparedness.



## ABOUT THE CONFERENCE CUM TRAINING

Disaster risks have increased throughout the world and have severely impacting environment, socio-economic and health of people in recent decades. The extreme weather conditions and climate change that we are experiencing would trigger and led to the increase the number and scale of disasters in the coming time. In recent past, more than 17.2 million people fled disasters in 125 countries and territories. As climate change amplifies, we would face more frequent and severe natural hazards. The impact will be too heavy to bear. Climate change also accountable for loss of people lives & poverty, biodiversity, poverty, food crisis, and left us with exhausted social, economic, and environmental debris. The fourth assessment by IPCC has already documented the threat looming over humans and civilizations due to climate change.

For India, confronting the challenge of climate change and increase in disaster risks suggests special significance, as it is the getting into the global main decision makers. The need of the hour to understand, examine and lead the country away from the impact of climate change and the risk of natural hazards. It's time that India should prepare for the bigger consequences of climate induced disasters and device preparedness strategies and promising governmental policy.

Floods are the most common natural disaster in India. States of India that lies in the major basin of Ganga-Yamuna namely Haryana, Himachal Pradesh, Uttar Pradesh, Bihar, West Bengal are more susceptible to flood disasters every year. Also, Assam has witnessed severe floods and irreparable loss. Many other regions in India like the river basins of Mahanadi (in Odisha), Godavari, Krishna, Pennar (in Andhra Pradesh), Narmada, Sabarmati and Tapti basin areas in Gujarat are known for their flood's catastrophe.

In this context, **Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Amity School of Engineering & Technology Amity University, Bihar, and National Institute of Disaster Management, New Delhi** is organizing a three-day Conference Cum Training on "Climate Induced Hydrological Disasters, Policies and Management" with the aim to discuss the present and future perspectives on the Climate Induced Hydrological Disasters, Policies and Management and to explores the linkages and the connection between the various aspects of disaster management in relation to climate change. There are several issues that need to address with immediate actions to minimize the losses occurring dur to hydrological disasters. The idea is that all the organizers, scientists, experts, and other stakeholders across the world and nation should come together for a better understanding and solving the problems of climate change and disaster management, from technical/technological, policy and legal perspectives and suggest sustainable solutions.

### **Aim/Objective of the conference-cum-training-**

The primary objective of the conference is to provide opportunity for academicians, researchers, practitioners, policy makers and research scholars to share and discuss ideas and practices across a range of empirical, theoretical, practical, technical, and applied approaches to deal with climate change and climate triggered disasters. The conference will discuss the unprecedented challenges being faced by the occurrence of disasters and their mitigation.

### **Main Conference Tracks/Sessions are:**

1. Climate Change and natural disasters- Linkages, implications, and capacity development.
2. Environmental and Socio-economic impacts and Health implications of climate change and the natural disasters

3. Facilitating and enabling transformative climate action and disasters mitigation strategies- Role of Governance, media, and awareness.
4. Science & Technology interventions, sustainable models for climate change mitigation and flood management in India- A blueprint of action.

### Target Audience

- Policy makers & regulators
- Academicians
- Research Scholars
- Industry Experts
- Government organizations
- NGO's & Registered Societies/Trusts
- Faculty & Practitioners in-
  - Environment Management
  - Disaster management
  - Psychology & post trauma doctors and nurses
  - Counselling
  - Social Work & activist
  - Health & safety
  - Law & governance
  - Technology & Engineering
  - Rehabilitation & Resettlement
  - Earth Sciences &
  - Food & Agricultural Security
  - Information Technology
  - Mass communication

### Topics to be covered

- i) Climate Change, adaptation and resilience, climate risk management, climate induced disasters
- ii) Natural and climate induced disasters, problems, and repercussions.
- iii) Disaster Risk Management, prevention, mitigation and preparedness, policies, and strategies
- iv) Climate change effects on health, disaster risks and health implication.
- v) Health facility preparedness, physical, emotional, and mental health, psychosocial support, trauma, and stress prevention
- vi) Public health, food crisis, water, and sanitation, and water pollution
- vii) Emerging approaches for water waste management, power and energy, transportation, waste management, water supplies & water logging.
- viii) Capacity building, individual, community and institutional learning, training, and development
- ix) Communications systems and/or networks, early warnings, communication technology (ICT)
- x) Society, media, and public awareness, disaster risk reporting, risk communication, social media.
- xi) community-based disaster risk management (CBDRM), community vulnerability assessment
- xii) Ecosystems and environmental management, environmental impact assessment, Integrated Natural Resource Management (INRM), land-use.
- xiii) Food Security & Agriculture, agricultural risk management, climate smart agriculture, rural land-use planning
- xiv) Fragility and conflict of climate related issues and disaster risk and, humanitarian crisis

- xv) Role of education, scientific research, tools, and recent technologies for mitigation of climate change and disaster risk.
- xvi) Structural and non-structural preparations for disaster risk reduction and mitigation
- xvii) Practical and engineered solutions to hydrological disasters, Flood Preparedness, Response, and Recovery in various states of India
- xviii) Policy appraisal, investment planning, decision-making tools, and Governance in disaster management and climate induced disasters
- xix) Climate change and Urban flood modelling and sustainable solutions
- xx) Remote sensing and geographical information systems, climate and hazard exposure mapping, vulnerability & risk mapping

### Resource Persons:

Eminent faculty from IITs and NITs, Scientists and Engineers from government bodies, industries, and Faculty from Delhi University, Ministry of New and Renewable Energy, MOEFCC, IARI, SPCB, IIPA, Niti Aayog, BSDMA, SSDMA, LSDMA, Nepal Disaster risk management authority and reputed Universities, and other reputed organizations.

### FLYER OF THE CONFERENCE CUM TRAINING PROGRAMME



The flyer features a central image of a globe surrounded by waves, with the text: "CONFERENCE CUM TRAINING ON CLIMATE INDUCED HYDROLOGICAL DISASTERS, POLICIES AND MANAGEMENT" and "7th-9th October 2021 VIRTUAL ZOOM PLATFORM". It lists various participants including Co-patrons, Chief Guest, Guest of Honor, and Special Guest.

**Registration link:** <https://training.nidm.gov.in/> & <https://amityuni.live/87421596275>

**Co-patron:**

- Prof. (Dr.) Balvinder Shukla, Vice Chancellor, Amity University, Uttar Pradesh
- Prof. (Dr.) T R Venkatesh, Vice Chancellor, Amity University, Patna
- Prof. (Dr.) Anil K. Gupta, Professor & Head, ECODM Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India

**Chief Guest:**

- Shri Bhupender Yadav, Union Minister of Environment, Forest, and Climate Change, GOI
- Shri Ashwini Kumar Choubey, Union Minister of State, Ministry of Consumer Affairs, Food and Public Distribution and Ministry of Environment, Forest and Climate Change, GOI
- Shri Sanjay Jha, Water Resources and Information Broadcasting minister, Govt of Bihar

**Guest of Honor:**

- Major General Manoj Kumar Bindal, Executive Director, NIDM
- Mr. Sanjeev Kumar, IFS, Additional Principal Chief Conservator of Forest, CAMPA, Jharkhand
- Mr. Glenn Banaguas, Chairman, US-ASEAN S & T Fellows, Chairman, Asian Science Diplomats, Climate Diplomat, EU-Asia Expert Panel for Climate Diplomacy and Environmental Security, Philippines

**Special Guest:**

- Mr. Sonam Wangchuk, Indian Engineer, Innovator and Education Reformer and Founding Director of the Students' Educational and Cultural Movement of Ladakh (SECMOL)

**Patron:**

- Dr. Atul Chauhan, Chancellor, Amity University
- Dr. Aseem Chauhan, Chancellor, Amity University

**Chief Patron:**

- Dr. Ashok K Chauhan, Founder President, Amity Education Group



**CONFERENCE CUM TRAINING ON CLIMATE INDUCED HYDROLOGICAL DISASTERS, POLICIES AND MANAGEMENT** 7<sup>th</sup>-9<sup>th</sup> OCTOBER 2021

**Advisors**



**Prof. D. K. Bandyopadhyay**  
Mentor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh



**Prof. Dr. Vivekanand Pandey**  
Pro Vice Chancellor, Amity University Patna, Bihar



**Prof. Shashi Bhushan**  
Director ASET, Amity University Patna, Bihar

**Programme Conveners**



**Dr. Manju Rawat Ranjan**  
Joint Coordinator, AIES, AUUP



**Dr. Renu Dhupper**  
Joint Coordinator, AIES, AUUP



**Dr. Ambrina S. Khan**  
Assistant Professor, AIES, AUUP

**Programme Coordinator**



**Mr. Abhinav Sahay**  
Assistant Professor, ASET, AUP (Bihar)



**Mr. Umesh Kumar**  
Assistant Professor, ASET, AUP (Bihar)



**Mr. Harshit Sharma**  
ECDRM Division, NIDM

**CONFERENCE CUM TRAINING ON CLIMATE INDUCED HYDROLOGICAL DISASTERS, POLICIES AND MANAGEMENT** 7<sup>th</sup>-9<sup>th</sup> OCTOBER 2021

**EMINENT SPEAKERS**



**Professor Dilanthi Amarathunga**  
Head, Global Disaster Resilience Centre School of Applied Sciences, University of Huddersfield, UK



**Prof. Mahua Mukherjee**  
Department of Architecture & Planning, Joint Faculty, Ex-Head, Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee, INDIA



**Dr. Brijesh Yadav**  
Professor & Head, Department of Hydrology, IIT Roorkee



**Dr. Sudhir Kumar Chaturvedi**  
Associate Professor & PIC, Department of Aerospace Engineering UPES, Dehradun



**Dr. A R Siddiqui**  
Professor, Department of Geography, University of Allahabad, Secretary general-Indian Institute of Geomorphologist, India



**Sh. Ashish Panda**  
Under Secretary to the Government of India at Government of India Central Delhi, Delhi, India



**Dr. Rajan R Patil**  
Department of S&M, University of Chennai, India, International Expert on Epidemic & Pandemic, Visiting Fellow-Columbia University, New York



**Dr. Vivek Singh**  
Faculty, University of Lucknow, Disaster Management Expert, State Disaster Management Authority, Lucknow, Uttar Pradesh, India



**Shri. Vyas Ji Mishra**  
& J&S/Head, Former Vice Chairman of Bihar State Disaster Management Authority (BSSDMA)



**Dr. Sweta Baidya Das**  
Research Associate, Green growth, Sustainability & Disaster Management, NIDM, Delhi



**Dr. Vinod K. Sharma**  
Senior Professor, Disaster Management Consultant at BPA, and Vice Chairman, Sikkim State Disaster Management Authority, Govt. of Sikkim.



**Dr. Ashutosh Mohanty**  
Professor, Faculty of Science and Technology, Centre of Excellence in Disaster Management (Eamp), Environment, Bhubaneswar, Odisha, India

**CONFERENCE CUM TRAINING ON CLIMATE INDUCED HYDROLOGICAL DISASTERS, POLICIES AND MANAGEMENT** 7<sup>th</sup>-9<sup>th</sup> OCTOBER 2021

**EMINENT SPEAKERS**



**Mr. Leonardo Piccinetti**  
Managing Director, Europe for Business Ltd. EU Climate Pact, Ambassador, Warrington, England, United Kingdom



**Mr. Ratindra Khatri**  
Crisis, Emergency and Disaster Management Specialist, Khazamda, Nepal



**Dr. Manish Goyal**  
Associate Professor, Discipline of Civil Engineering IIT Indore



**Dr. Archana Sarkar**  
Scientist E, National Institute of Hydrology, Roorkee, India



**Mr. Eklavya Prasad**  
MEGH PINE ABHITAN



**Dr. Pradeep Goyal**  
Associate Professor, DTU, New Delhi



**Mr. Ramesh R Tripathi**  
Project Officer (Flood manager and smart & sustainable communities/cities designer), World Meteorological Organization, Geneva



**Ms. Fatima Amin**  
Young Professional NIDM



**Ms. Kopal Verma**  
Jr. Consultant, NIDM



**Mr. Michael Islary**  
Jr. Consultant, NIDM

**CONFERENCE CUM TRAINING ON CLIMATE INDUCED HYDROLOGICAL DISASTERS, POLICIES AND MANAGEMENT** 7<sup>th</sup>-9<sup>th</sup> OCTOBER 2021

**MAIN CONFERENCE TRACKS/SESSIONS ARE:**

1. Climate Change and natural disasters- Linkages, implications, and capacity development.
2. Environmental and Socio-economic impacts and Health implications of climate change and the natural disasters
3. Facilitating and enabling transformative climate action and disasters mitigation strategies- Role of Governance, media, and awareness.
4. Science & Technology interventions, sustainable models for climate change mitigation and flood management in India- A blueprint of action.

**IMPORTANT DATES:**

Date of submission of Abstract Submission: 05.10.2021, Email: aiosamity@gmail.com

**Jointly organized by**

Amity Institute of Environmental Sciences Amity University, Noida Uttar Pradesh,

Amity Institute of Science and Technology, Amity University, Patna, Bihar &

National Institute of Disaster Management, Ministry of Home Affairs, GoI, Delhi



**Contact:**

- i. Dr. Renu Dhupper, AIES, AUUP, (rdhupper@amity.edu, 09810804964)
- ii. Dr. Ambrina Sardar Khan, AIES, AUUP (askhan@amity.edu, 08586069760)
- iii. Mr. Umesh Kumar, ASET, AUP, (ukumar@ptn.amity.edu, 07043012342)



## AGENDA OF THE CONFERENCE CUM TRAINING PROGRAMME

### Day 1: Thursday- 07.10.2021

Time (IST)	Topic	Resource person
10:00am-10:05am	<b>Inaugural Function</b> <ul style="list-style-type: none"> <li>• Invocation and lighting of the lamp</li> <li>• Welcome address</li> <li>• Introduction to the Conference</li> <li>• Addresses by competent authority of institutions</li> <li>• Inaugural Address by Guest of Honour</li> <li>• Inaugural Address by Chief Guest</li> <li>• Vote of Thanks</li> </ul>	<i>Dr. Manju Rawat Ranjan, Joint coordinator, AIES, AUUP</i>
10:05am-10:10am		<i>Dr. Renu Dhupper, Joint coordinator, AIES, AUUP</i>
10:10am-10:15am		Few words by Prof. Tanu Jindal, <i>Gp. Additional Pro Vice Chancellor (R&amp;D), Amity University Uttar Pradesh</i>
10:15am-10:25am		Address by Prof. Dr. Vivekanand Pandey, <i>Pro Vice Chancellor, Amity University Patna, Bihar</i>
10:25am-10:35pm		Address by Prof. D. K. Bandyopadhyay, Mentor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, India
10:35pm -10:45am		Address by Prof. T R Venkatesh <i>Vice Chancellor, Amity University Patna, Bihar</i>
10:45 am-10:55am		Address by <b>Prof. (Dr.) Anil K. Gupta</b> , Professor & Head, ECDRM Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India
10:55am-11:05am		Address by <b>Prof. (Dr.) Balvinder Shukla</b> , <i>Vice Chancellor, Amity University Uttar Pradesh (AUUP)</i>
11:05am-11:15am		Inaugural Address by <b>Guest of Honour Major General Manoj Kumar Bindal</b> , Executive Director, NIDM
11:15am-11:30am		Few thoughts by <b>Dr. Atul Chauhan*</b> , <i>Chancellor, AUUP &amp; President, RBEF</i>
11:30am-11:45am		Inaugural Address by Chief Guest <b>Shri Ashwini Kumar Choubey</b> , Union Minister of State, Ministry of Consumer Affairs, Food and Public Distribution, and Ministry of Environment, Forest and Climate Change, GOI
11:45am-12:00pm		Blessings by <b>Dr. Ashok K Chauhan*</b> , <i>Founder President, Ritnand Balved Education Foundation</i>
12:00pm-12:20pm		
12:20pm-12:30pm	Vote of Thanks by <i>Dr. Ambrina Sardar Khan, Assistant Professor, AIES</i>	

## Day 1: Thursday- 07.10.2021

SESSION 1: Climate Change and natural disasters- Linkages, implications, and capacity development with special reference to hydrological disasters		
Time (IST)	Topic	Resource person
02:00pm-02:30pm	Lead Lecture	<b>Distinguished Speakers:</b> <b>Prof. (Dr.) Anil K. Gupta</b> , Professor & Head, ECDRM Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India
02:30pm-02:40pm	<i>Address to queries by Prof. (Dr.) Anil K. Gupta</i>	
02:45pm -03:15pm	<b>Mitigating the Impacts through governance and institutional arrangements</b>	<b>Professor Dilanthi Amaratunga</b> , BSc (Hons), PhD, FHEA, FRICS, FRGS, CMgr FCMI, Disaster Risk Reduction and Management, Head, Global Disaster Resilience Centre School of Applied Sciences, University of Huddersfield, UK
03:15pm -03:25pm	<i>Address to queries by Professor Dilanthi Amaratunga</i>	
03:30pm-04:00pm	<b>"Networks, Nature and Resilience"</b> .	<b>Prof. Mahua Mukherjee, PhD., Fulbright Fellow</b> Department of Architecture & Planning Joint Faculty, Ex-Head, Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee, INDIA
04:00pm -04:10pm	<i>Address to queries by Prof. Mahua Mukherjee</i>	
04:15pm-04:45pm	<b>"CO2 Geo sequestration in Deep Subsurface to Mitigate Climate Change"</b>	<b>Dr. Brijesh Yadav, PhD</b> Professor & Head, Department of Hydrology, IIT Roorkee
04:45pm-04:55pm	<i>Address to queries by Dr. Brijesh Yadav</i>	
05:00pm -05:35pm	<b>Tsunami And Remote Sensing</b>	<b>Dr. Sudhir Kumar Chaturvedi</b> Associate Prof., UPES//IIT Madras//IIT Bombay//Visiting Scientist-KORDI, South Korea//SMIEEEE//MAeSI//MISRS// Dehra Dun, Uttarakhand, India
05:35pm -05:45pm	<i>Address to queries by Dr. Sudhir Kumar Chaturvedi</i>	
05:45pm-06:15pm	<b>Use of Satellite derived data and Geo-informatics in Desertification mapping</b>	<b>Dr. A R Siddiqui</b> Professor, Department of Geography, Earth observation specialized in Geo-hazard, University of Allahabad, Secretary general-Indian Institute of Geomorphologist, India
06:15pm-06:25pm	<i>Address to queries by Dr. A R Siddiqui</i>	
06:25pm-06:45pm	<b>Vote of thanks &amp; Online Assessment for PANEL DISCUSSION SESSION – I</b>	

## Day 2: Friday- 08.10.2021

SESSION 2: Environmental, Financial, Socio-economic impacts and Health implications of climate induced hydrological disasters- action plans urban planning & building resilience.		
Time (IST)	Topic	Resource person
10:30am-11:00am	Urban Heat Island	<b>Sh. Ashish Panda</b> , Under Secretary to the Government of India at Government of India Central Delhi, Delhi, India
11:00am-11:10am	<i>Address to queries Sh. Ashish Panda</i>	
11:15am-11:45am	Health Impacts of Climate Change & Biodiversity Loss On Risk Of Future Epidemics & Pandemics As Natural - Biological Disasters	<b>Dr. Rajan R Patil</b> , Epidemiologist, SRM University, Chennai, India, International Expert on Epidemic & Pandemic. Frontline COVID-19 investigator in AFRICA/Asia with WHO/UN-Multi Country deployments global experience. Visiting Fellow-Columbia University, New York
11:45am-11:55am	<i>Address to queries by Dr. Rajan R Patil</i>	
12:00pm-12:30pm	New threats and hydrological disaster risk due to climate change	<b>Dr. Vivek Singh</b> , Faculty, University of Lucknow, Disaster Management Expert, State Disaster Management Authority, Lucknow, Uttar Pradesh, India
12:30pm-12:40pm	<i>Address to queries by Dr. Vivek Singh</i>	
12:45pm-01:15pm	Flood management in Bihar	<b>Shri. Vyas Ji Mishra</b> , IAS(Retd.), Former Vice Chairman of Bihar State Disaster Management Authority (BSDMA)
01:15pm-01:25pm	<i>Address to queries by Mr. Vyas Ji Mishra</i>	
01:30pm-02:00pm	Integrating Climate Change Strategies for Future Human Habitat	<b>Dr. Sweta Baidya Das</b> Research Associate, Green growth, Sustainability & Disaster Management, NIDM, Delhi
02:00pm-02:10pm	<i>Address to queries by Dr. Sweta Baidya Das</i>	
02:15pm-02:35pm	<b>Vote of thanks &amp; Online Assessment for PANEL DISCUSSION SESSION – II</b>	



<b>SESSION3: Facilitating and Enabling Transformative Climate Action and Disasters Mitigation Strategies- Role of Governance, Media, and Awareness</b>		
<b>Time (IST)</b>	<b>Topic</b>	<b>Resource person</b>
03:30pm-04:00pm	Good Governance and Public awareness-key for CCA and DRR'	<b>Dr. Vinod K. Sharma</b> , Senior Professor, Disaster anagement/Consultant at Indian Institute of Public Administration, and Vice Chairman, Sikkim State Disaster Management Authority, Govt. of Sikkim.
04:00pm -04:05pm	<i>.Address to queries by Dr. Vinod K. Sharma</i>	
04:10pm-04:40pm	Disaster Risk Governance and mitigation Strategies for Hindukush Himalaya/South Asia	<b>Dr. Ashutosh Mohanty</b> , Professor, Faculty of Science and Technology, Centre of Excellence in Disaster Management & Environment, Bhopal, Madhya Pradesh, India
04:40pm-04:45pm	<i>Address to queries Dr. Ashutosh Mohanty</i>	
04:50pm-05:20pm	Case Study in Climate Change Adaptation in Collaboration between European and Tunisia Research Network FASTER	<b>Mr. Leonardo Piccinetti</b> Managing Director, Europe for Business Ltd, EU Climate Pact Ambassador, Warrington, England, United Kingdom
05:20pm-05:25pm	<i>Address to queries by Mr. Leonardo Piccinetti</i>	
05:30pm-06:00pm	Climate Induced Hydrological Disasters in Nepal, Experience from Responder	<b>Mr. Ratindra Khatri</b> Crisis, Emergency and Disaster Management Specialist, Khatmandu Nepal



06:00pm-06:05pm	<i>Address to queries by <del>Dr. Ratindra Khatri</del></i>	
06:10pm-06:40pm	Climate change and water management	<b>Dr. Manish Goyal</b> , Associate Professor, Discipline of Civil Engineering IIT Indore
06:40pm-06:45pm	<i>Address to queries by Dr. Manish Goyal</i>	
06:50pm-07:00pm	Role of Local Administration in Disaster Management and Risk Reduction	Hands on Training session by <b>Mr. Harshit Sharma</b> , ECDRM Division, NIDM
07:05pm-07:15pm	River Hazards and Disaster Management	Hands on Training session by <b>Ms. Fatima Amin</b> , Young Professional NIDM
07:15pm-07:35pm	<b><i>Vote of thanks &amp; Online Assessment for PANEL DISCUSSION SESSION – III</i></b>	

### Day 3: Saturday- 09.10.2021

<b>SESSION 4: Mainstreaming climate change into disaster risk management for the flood prone areas in India- Sustainable Models and blueprint of action.</b>		
<b>Time (IST)</b>	<b>Topic</b>	<b>Resource person</b>
10:00am-10:30am	Climate Change and Water Resources in India: Present Status and Future Impacts with Special Emphasis to Water Related Disasters	<b>Dr. Archana Sarkar</b> Scientist E, National Institute of Hydrology, Roorkee, India
10:30am -10:40am	<i>Address to queries by Dr. Archana Sarkar</i>	
10:45am -11:15am	Climate Resilience - People's Perception	<b>Mr. Eklavya Prasad</b> , MEGH PYNE ABHIYAN
11:20am-11:50am	<i>Address to queries by Mr. Eklavya Prasad</i>	
11:55am-12:05pm	Wastes in Water	Hands on Training session by <b>Ms. Kopal Verma</b> Jr. Consultant, NIDM
12:10am-12:40pm	Risk and vulnerability assessment of houses due to cyclonic wind	<b>Dr. Pradeep Goyal</b> , Associate Professor, DTU, New Delhi
12:40pm-12:50pm	<i>Address to queries by Dr. Pradeep Goyal</i>	
12:55pm -01:35pm	WMO initiatives and approaches for the Integrated flood management	<b>Mr. Ramesh R Tripathi</b> , Project Officer (Flood manager and smart & sustainable communities/cities designer), World Meteorological Organization, Geneva
01:35pm-01:45pm	<i>Address to queries by Mr. Ramesh R Tripathi</i>	
01:50pm-02:00pm	Dams and Disasters in Northeast India	Training session by <b>Mr. Michael Islary, Jr.</b> Consultant, NIDM
02:05pm-03:00pm	<b>Panel Discussion</b>	
03:00pm-03:15pm	<i>Vote of thanks &amp; Online Assessment for PANEL DISCUSSION SESSION – IV</i>	



### Day 3: Saturday- 09.10.2021

VALEDICTORY SESSION		
Time (IST)	Topic	Resource person
04:00pm -04:05pm	<b>Valedictory Function</b> <ul style="list-style-type: none"> <li>Invocation and lighting of the lamp</li> <li>Welcome address</li> <li>Report Presentation the Conference</li> <li>Addresses by competent authority of institutions</li> <li>Inaugural Address by Guest of Honour</li> <li>Inaugural Address by Chief Guest</li> <li>Vote of Thanks</li> </ul>	Invocation and Lighting of Lamp
04:05pm -04:10pm		<i>Dr. Manju Rawat Ranjan, Joint coordinator, AIES, AUUP</i>
04:10pm -04:20pm		<i>Dr. Renu Dhupper, Joint coordinator, AIES, AUUP</i>
04:20pm -04:25pm		Few thoughts by <b>Prof. Dr. Vivekanand Pandey, Pro Vice Chancellor, Amity University Patna, Bihar</b>
04:25pm -04:30pm		Few thoughts by <b>Prof. D. K. Bandyopadhyay</b> Mentor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, India
04:30pm-04:35pm		Few thoughts by <b>Prof. T R Venkatesh Vice Chancellor, Amity University Patna, Bihar</b>
04:35pm-04:40pm		Few thoughts by <b>Prof. (Dr.) Balvinder Shukla, Vice Chancellor, Amity University Uttar Pradesh (AUUP)</b>
04:40pm-05:00pm		<b>Special Address by Guest of Honour- Mr. Glenn Banaguas</b> Chairman, US-ASEAN S&T Fellows, Chairman, Asian Science Diplomats, Climate Diplomat, EU-Asia Expert Panel for Climate Diplomacy and Environmental Security, Philippines
05:00pm-05:20pm		<b>Valedictory Address by Chief Guest: Shri Sanjay Jha, Water Resources and Information Broadcasting minister, Govt of Bihar</b>
05:20pm-05:40pm		Blessings by <b>Dr. Ashok K Chauhan*</b> , <i>Founder President, Ritanand Balved Education Foundation</i>
05:40pm-06:00pm	Vote of Thanks by <i>Prof. Shashi Bhushan, Director ASET, AUP, Bihar</i>	

## List of Experts

1. Shri Bhupender Yadav, Union Minister of Environment, Forest, and Climate Change, GOI
2. Shri Ashwini Kumar Choubey, Union Minister of State, Ministry of Consumer Affairs, Food and Public Distribution and Ministry of Environment, Forest and Climate Change, GOI
3. Shri Sanjay Jha, Water Resources and Information Broadcasting minister, Govt of Bihar
4. Major General Manoj Kumar Bindal, Executive Director, NIDM
5. Prof. (Dr.) Anil K. Gupta, Professor & Head of Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India
6. Mr. Glenn Banaguas, Chairman, US-ASEAN S&T Fellows, Chairman, Asian Science Diplomats, Climate Diplomat, EU-Asia Expert Panel for Climate Diplomacy and Environmental Security, Philippines
7. Professor Dilanthi Amaratunga, BSc (Hons), PhD, FHEA, FRICS, FRGS, CMgr FCMI, Disaster Risk Reduction and Management, Head, Global Disaster Resilience Centre School of Applied Sciences, University of Huddersfield, UK
8. Prof. Mahua Mukherjee, PhD., Fulbright Fellow, Department of Architecture & Planning, Joint Faculty, Ex-head Centre of Excellence in Disaster Mitigation and Management IIT Roorkee, INDIA
9. Dr. Brijesh Yadav, Professor, Department of Hydrology, IIT Roorkee
10. Dr. A R Siddiqui
11. Professor, Department of Geography, University of Allahabad, Secretary general-Indian Institute of Geomorphologist, India
12. Sh. Ashish Panda, Under Secretary to the Government of India at Government of India
13. Central Delhi, Delhi, India
14. Dr. Rajan R Patil, Epidemiologist, SRM University, Chennai, India, International Expert on Epidemic & Pandemic. Visiting Fellow-COLUMBIA UNIVERSITY New York
15. Dr. Vivek Singh Faculty, University of Lucknow, Disaster Management Expert, State Disaster Management Authority, Lucknow, Uttar Pradesh, India
16. Mr. Vyas Ji Mishra, IAS(Retd.), Former Vice Chairman of Bihar State Disaster Management Authority (BSDMA)
17. Dr. Sweta Baidya Das, Research Associate, Green growth, Sustainability & Disaster Management, NIDM, Delhi
18. Dr. Vinod K. Sharma, Senior Professor, Disaster Management/Consultant at Indian Institute of Public Administration, and Vice Chairman, Sikkim State Disaster Management Authority, Govt. of Sikkim.
19. Dr. Ashutosh Mohanty, Professor, Faculty of Science and Technology, Centre of Excellence in Disaster Management & Environment, Bhopal, Madhya Pradesh, India
20. Mr. Leonardo Piccinetti, Managing Director, Europe for Business Ltd, EU Climate Pact Ambassador, Warrington, England, United Kingdom
21. Dr. Ratindra Khatri, Crisis, Emergency and Disaster Management Specialist, Khatmandu Nepal
22. Dr. Manish Goyal, Associate Professor, Discipline of Civil Engineering IIT Indore
23. Dr. Archana Sarkar, Scientist E, National Institute of Hydrology

24. Mr. Eklavya Prasad, MEGH PYNE ABHIYAN
25. Dr. Pradeep Goyal, Associate Professor, DTU, New Delhi
26. Mr. Ramesh R Tripathi, Project Officer (Flood manager and smart & sustainable communities/cities designer), World Meteorological Organization, Geneva
27. Ms. Fatima Amin, Young Professional NIDM
28. Ms. Kopal Verma Jr. Consultant, NIDM
29. Mr. Michael Islary, Jr. Consultant, NIDM
30. Mr. Harshit Sharma, ECDRM Division, NIDM






## DAY-WISE SUMMARY

**Thursday 07.10.2021**

	<p>Presiding the inaugural of the Faculty Development Programme, <b>Dr. Ambrina S.Khan</b>, Assistant Professor, Amity Institute of Environmental Sciences, AUUP on behalf of Hon'ble Founder President Sir, Hon'ble Chancellor Sir and Hon'ble Vice Chancellor, welcomed all the respected dignitaries and the participants of the Faculty Development Programme. She gave a brief introduction of all resource persons and about Amity University and Conference Cum Training. The event started with the curtain raiser followed with the invocation of Goddess Saraswati by rendition of Saraswati Vandana and the lighting of the lamp of knowledge in virtual mode.</p>
	<p><b><u>Dr. Manju Ranjan Rawat, Joint Coordinator, Associate Professor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh,</u></b> welcomed all the dignitaries, participants for having spared their time and thanked the revered guides &amp; experts, colleague from connected institution. She also welcomed the Hon'ble guests and eminent speakers. She thanked NIDM for joining together for conducting the conference.</p>
	<p><b>Dr. Renu Dhupper, Joint Coordinator, AIES:</b> Addressing to Dignitaries attending the conference from all over the country Dr. Dhupper explained about the Objectives, Expected Learning Outcomes and Themes/Focus Areas of the Conference Cum Training. She mentioned the primary objective of the conference is to provide opportunity for academicians, researchers, practitioners, policy makers and research scholars to share and discuss ideas and practices across a range of empirical, theoretical, practical, technical and applied approaches to deal with climate change and climate triggered disasters. She talked about the expected conference learning outcomes</p>
	<p><b>Prof. Tanu Jindal</b> addressed the gathering and welcomed all the dignitaries and participants. She mentioned about the work and contribution of NIDM towards disaster management. She gave a presentation about recent disaster events in 2020 and 2021. She spoke about earthquakes, flood, cyclone, fires. She explained the serious impacts of disaster to humans, animals and the land. She mentioned about the deaths and injuries during these disaster events. She explained the hydrological disasters caused by climate change. She gave insight into the hydrological disasters that are induced or triggered by weather extreme conditions. She spoke about climate change risk management framework. She talked about all the courses of Graduation and Master provided by Amity University related to climate change and disaster management. She mentioned about monitoring and reporting of climate risk and adaptation.</p>

	<p><b><u>Prof. Dr. Viveknand Pandey, Pr-Vice Chancellor, Amity University, Patna</u></b></p> <p>He talked about the disaster events in Bihar. He explained that flood and drought are common in Bihar. Bihar is like bowl facing flood every year. Flood causes pollution and degrades the quality of river water and drought causes scarcity of water. He explained about natural and climate induced disasters, problems, and repercussions. He said that we could come up with better mitigation strategies and solutions to reduce the disaster. He thanked all the team for conducting this conference cum training.</p>
	<p><b><u>Prof. D. K. Bandyopadhyay, Chief Advisor FPO / Chairman, Amity Law School, Mentor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh.</u></b></p> <p>He said that research opportunities are provided on mitigation strategies and climate change and was thankful to our Hon'ble Vice Chancellor. This is all due to tremendous amount based on Hon'ble Founder President and Hon'ble Chancellor. He explained the need of mitigation strategies to cope up with future disasters. He talked about the sufferings due to hydrological hazards. He also introduced about different types of hazards like cyclone, typhoons, hurricanes, hailstorms, <i>avalanches, flood, drought etc.</i></p>
	<p><b><u>Dr. T.R. Venkatesh, Founder of Amity University, Patna.</u></b></p> <p>He addressed the gathering and welcomed all the dignitaries and participants for their guidance and motivation. He explained the difference between of climate and weather. Climate change causes flood, drought and other disasters. Decision makers should adapt mater management for better future. World water report most of the disasters are due to water. The no. of deaths due to flood is very high. The focus of this conference is to bring awareness and build capacity for climate resilient approaches and work on policy making for various related water disasters like flood, drought, storms and heat wave. He talked about global warming and greenhouse gases emission. He explained about the rise in number to deaths due to disasters.</p>
	<p><b><u>Prof. (Dr.) Anil K. Gupta Prof. Professor &amp; Head of Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India</u></b></p> <p>He talked about climate emergency, IPCC report and concerns about climate change. He said that warning started coming in 4th report of IPCC. He asked about the 1<sup>st</sup> National disaster plan released 2017. He talked about National plan opportunity for policy making. He talked about paradigm shift to mitigation strategies. He described about the agenda of disaster risk management. He said that climate change management should be done at vulnerability level. He spoke about National Adaption Health Plan for our country. He talked about the role of industries like fire, heat wave. He mentioned about the work done and achievement of NIDM. He mentioned about the internship reports by NIDM trainee and good journal papers published by these trainees.</p>

	<p><b><u>Prof (Dr.) Balvinder Shukla, Hon'ble Vice Chancellor, Amity University Uttar Pradesh:</u></b></p> <p>She appreciated and congratulated all the team for organizing such important and professional program for the faculty development. She talked about how the environmental shift is happening and its need immediate attention of researchers and academicians. She was hopeful that the threedays conference cum training programme will give more ideas of research in the coming time. She has congratulated the entire team of NIDM and wished to see many more events like this in future.</p>
	<p><b><u>Shri Ashwini Kumar Chaubey, Union Minister of State, Ministry of Consumer Affairs, Food and Public Distribution and Ministry of Environment Forest and Climate Change, GOI:</u></b></p> <p>He was grateful to join the conference cum training event. He talked about the blue flag of river that is achieved by India recently. He talked about the temperature change of earth and the need to reduce the global temperature of earth. He explained about the earthquakes and floods. He explained the carbon footprint of India. He thanked PM Modi for taking the required steps for climate change. He also mentioned about renewable energy efficiency. He talked about the different schemes like Ujjala Yojana for reducing the indoor pollution and also giving women employment opportunity.</p>
	<p><b><u>Guest of Honour- Major General Manoj Kumar Bindal, Executive Director, NIDM, Ministry of Home affairs, GOI, India</u></b></p> <p>He thanked Chaubey ji and the support of government for disasters and climate change. He talked about the climate models for predicting future disasters. He described about global warming and extreme event. Humans are responsible for climate change. He talked about development models by developing countries for climate change. He talked about 19 exteme events in India occurring mostly in Bihar and Maharashtra. He talked about the acceleration rate of increase in temperature, night temperature, rising sea levels. He mentioned about diseases, melting glacier, erratic rainfall. Patterns of erratic rainfall will become normal in future so we need to develop new policies to face this outcomes. Early warning should be developed to reduce risk. Remoste sensing will give better forecast and NDMA has issued plans and guidelines for facing and taking necessary action for different disaster.</p>



**DAY 1- Thursday 07.10.2021 SESSION 1: Climate Change and natural disasters- Linkages, implications, and capacity development with special reference to hydrological disasters**

	<p>The first plenary session of the conference started with the welcome address given by <b>Dr. Richa Nagar</b>. After a brief introduction about the session, she welcomed the first panelist of the session, Prof.(Dr.) Anil K. Gupta.</p>
	<p><b><u>Dr. Anil K. Gupta, Professor and head of division, NIDM, Ministry of Home Affairs, Government of India</u></b></p> <p>Dr. Anil K. Gupta is Professor and head of division, NIDM, Ministry of Home Affairs, Government of India. After Dr. Nagar gave a brief introduction about Prof. Gupta, he started with his presentation on the topic ‘Climate emergencies and disaster resilience-food nutritional security, livelihoods and business resilience’. He started by discussing about the new policy paradigm talking about Sendai Framework for disaster risk reduction (SFDRR) 2015-30. He explained the concepts of risk, resilience and sustainability. He concluded by talking about development and sustainability and what is the middle path to follow for leading a balanced life. Dr. Richa Nagar and Dr. Renu Dhupper thanked him for his enlightening presentation.</p>
	<p><b><u>Prof. Dilanthi Amaratunga, BSc Honors, PhD, FHEA, FRICS, FRGS, CMGR, FCMI, Disaster risk reduction and management head, Global disaster resilience centre, School of applied sciences, University of Huddersfield, U.K</u></b></p> <p>After Dr. Gupta’s presentation was over, Dr. Richa Nagar invited Prof. Dilanthi Amaratunga. Prof. Amaratunga was felicitated with a Tulsi sapling virtually by Dr. Manju Rawat Ranjan. After Dr. Nagar gave a brief introduction about Prof. Amaratunga, she started with her presentation on the topic ‘Climate induced Hydrological disasters, policies and management-Mitigating the impacts through governance and institutional arrangements’. She started off by talking about the mortality rate and economic losses due to climate induced disasters. From 1970-2019. She discussed about the floods in Ciliwung river basin and its physical and anthropogenic impacts. She also talked about legal and institutional framework and enforcement of various laws related to flood control. After her presentation was over, she was thanked by Dr. Ambrina and Dr. Richa Nagar. Dr. Nagar asked a few questions to Prof. Dilanthi on behalf of various listeners.</p>






	<p><b><u>Prof. Mahua Mukherjee, PhD, Fulbright fellow, Department of architecture and planning, Joint Faculty, ex-Head, Centre of excellence in disaster mitigation and management, IIT Roorkee, India.</u></b></p> <p>After Prof. Dilanthi’s presentation was over, Dr. Richa Nagar invited Prof. Mahua Mukherjee as the next panelist. She was felicitated with a Tulsi sapling virtually by Dr. Renu Dhupper. Prof. Mukherjee started with her presentation on the topic ‘Networks, nature and resilience’. She started off by talking about networks in general and then moved on to infrastructure services and water services taking the example of SCADA system in Milan. Then she talked about ecosystem services and urban system with disrupted networks and fragmentation. She concluded by talking about the South Asia Alliance of Disaster Research Institute (SAADRI). She was thanked by Dr. Richa Nagar for her enlightening presentation after which she answered a few questions asked by the listeners.</p>
	<p><b><u>Dr. Brijesh Yadav, Professor, Department of Hydrology, IIT Roorkee, India</u></b></p> <p>After Prof. Mukherjee’s presentation was over, Dr. Richa Nagar invited Dr. Brijesh Yadav as the next panelist. Dr. Brijesh was felicitated with a Tulsi sapling virtually by Mr. Umesh Kumar. Dr. Brijesh started his presentation on the topic ‘CO<sub>2</sub> geosequestration in deep subsurface to mitigate climate change’. He started off by talking about carbon cycle in general followed by carbon sequestration and carbon sequestration in subsurface. Then he talked about the trapping mechanism and the global carbon sequestration status. He also discussed about multiphase flow of CO<sub>2</sub> through porous media. After his presentation was over, Dr. Richa Nagar thanked him for his wonderful presentation and later asked him a few questions on behalf of the listeners.</p>
	<p><b><u>Dr. Sudhir Kumar Chaturvedi, Associate professor, UPES, IIT Madras, IIT Bombay/Visiting scientist KORDI, South Korea/SMIEEE/MAeSI/MISRS/Young scientist awardee-Korea/Conener-AEROFI/Outstanding faculty award-Brasil/Dehradun, Uttarakhand, India</u></b></p> <p>The next panelist was Dr. Sudhir Kumar Chaturvedi. Dr. Richa Nagar gave a brief introduction about Dr. Chaturvedi and later he was felicitated with a Tulsi sapling virtually by Mr. Abhinav Sahay. Dr. Chaturvedi started his presentation on the topic ‘Tsunami and remote sensing’. He started off by giving a brief about natural systems, human systems, vulnerability and natural disasters. Then he talked about tsunami generation and propagation mechanism. He discussed about remote sensing sensors of various types and international tsunami hazard mitigation plan. He concluded by talking about tsunami warning systems. After his presentation was over, he answered a few questions asked by listeners.</p>



	<p><b><u>Dr. A. R. Siddiqui, Professor, Department of geography, Earth observation, specialized in geohazard, University of Allahabad, Secretary general, Indian Institute of Geomorphology, India</u></b></p> <p>The next panelist was Dr. A. R. Siddiqui. He was invited by Dr. Richa Nagar for his presentation and was felicitated by Dr. Ambrina with a Tulsi sapling virtually. He started off by talking about Indian subcontinent and the drought and flood prone areas. He gave a presentation on his experience in desertification mapping. He discussed about definitions and certifications of arid, semi-arid and sub-humid regions. He gave a presentation on the topic ‘Roles of satellite derived data and geoinformatics in mapping of drought and desertification. After talking about the various definitions of drought, he discussed the various impacts of drought. Then he also talked about the drought monitoring methodology used by IMD. In the end he talked about the findings of his work including a decrease in culturable waste being assign of marginalization. He was later thanks by Dr. Dhupper, Dr. Nagar and Dr. Khan for his enlightening presentation.</p>
	<p>Vote of thanks was given by <b>Dr. Umesh Kumar</b>, Assistant professor, Amity University, Patna, Bihar. Later the session was concluded by Dr. Richa Nagar.</p>




**DAY 2 Friday 08.10.2021 SESSION 2: Environmental, Financial, Socio-economic impacts and Health implications of climate induced hydrological disasters- action plans urban planning & building resilience.**

	<p>The second day of the ‘Conference cum Training’ on Climate Induced Hydrological Disasters, Policies and Management was commenced by Dr. Anamika Shrivastava. Session I: “Environmental, Financial, Socio-economic impacts and Health implications of climate induced hydrological disasters- action plans urban planning &amp; building resilience.” Time: 10.30 am – 2.45 pm</p>
	<p><b>Sh. Ashish Panda</b>, Under Secretary, Government of India, Central Delhi, presented his talk on “Urban Heat Islands”. He first highlighted the concerns regarding fast paced urbanization and growing urban population. He also discussed the National mission on sustainable habitat. He later explained ways mitigate the effects of Urban Heat Islands in existing cities. His gave examples of many cities across the world where efforts are being taken up from vertical gardening to material modification that have shown positive results. Additionally, he also discussed how a smart city can be designed so that in future the problem can be managed as early as possible.</p>
	<p>Later <b>Dr. Rajan R Patil</b>, Epidemiologist, SRM University, Chennai, International Expert on Epidemic &amp; Pandemic. Frontline COVID-19 investigator in AFRICA/Asia with WHO/UN- Multi Country deployments global experience, Visiting Fellow-Columbia University, New York, presented his talk on “Health Impacts of Climate Change &amp; Biodiversity Loss on Risk Of Future Epidemics &amp; Pandemics As Natural -Biological Disasters: Need for rein freeing public health into Planetary health.”</p> <p>He explained in detail about the anthropocentric and eco-centric views in the present day. He stressed the need on shifting from anthropocentric to eco-centric view for a sustainable future. He also elaborated on how climate change is affecting biodiversity and disease transmission.</p>
	<p><b>Shri. Vyas Ji Mishra</b>, IAS (Retd.), Former Vice Chairman of Bihar State Disaster Management Authority (BSDMA), presented his talk on “Environmental, Socioeconomic, and health impacts of Bihar/Kosi Floods”.</p> <p>He discussed in detail about the river Kosi, its tributaries and distributaries and the impacts of flood in Bihar occurred in 2008 in the river. He also discussed the effects in terms of peoples’ suffering, loss of property and effects on other living organisms as a result of the natural disaster, especially in the region of North Bihar. He also highlighted the efforts being taken up by the Bihar Government for assisting the flood affected people in terms of proving them with all the essentials and safety.</p>

	<p><b>Dr. Vivek Singh</b>, Faculty, University of Lucknow, Disaster Management Expert, State Disaster Management Authority, Lucknow, Uttar Pradesh, presented his talk on: "New threats and hydrological disaster risk due to climate change". He talked on the hydrological disasters in terms of droughts and floods. He also discussed in detail about the future in terms of flood and droughts due to climate change. He discussed a positive story on how the fourth largest lake in the world, Lake Sudochi of Aral Sea, was restored by the World Bank. He also highlighted the mitigation strategies in order to check these impacts of climate change.</p>
	<p><b>Dr. Pradeep K. Goyal</b>, Associate Professor DTU, New Delhi, presented his talk on: "Risk and vulnerability assessment of houses due to cyclonic wind".</p> <p>He first explained vulnerability, hazard and disaster risk. He discussed about the tropical cyclone and its impacts in detail. He listed the recent cyclones that have occurred in India and explained about how their frequency and intensity have increased over time. He also explained how the cyclones are named and how the prediction and impacts are quantified. Later he also explained about the extra-tropical cyclone. He also discussed about the mitigation strategies to prevent and/or reduce the impacts of these cyclones and also discussed the mathematical tools and calculations for estimating the damage caused by these cyclones.</p>
	<p>The vote of thanks was given by <b>Dr. Abhinav Sahai</b>, Assistant Professor, Amity University Patna Bihar</p>

**Day 2 Friday 08.10.2021 - SESSION3: Facilitating and Enabling Transformative Climate Action and Disasters Mitigation Strategies- Role of Governance, Media, and Awareness**





	<p><b>Dr. Vinod K. Sharma Senior Professor, Disaster Management/Consultant at Indian Institute of Public Administration, and Vice Chairman, Sikkim State Disaster Management Authority, Govt. of Sikkim.</b></p> <p>He talked about 3 frameworks- Paris Agreement, Sendai Framework, Sustainable Development Goal. He talked about forest fires continued for months in different countries. He talked about disaster risk management by reduction and preparedness. He mentioned about disaster as interface between natural hazard and vulnerable conditions</p>
	<p><b>Dr. Ashutosh Mohanty Professor, Faculty of Science and Technology, Centre of Excellence in Disaster Management &amp; Environment, Bhopal, Madhya Pradesh, India</b></p> <p>He started with Disaster risk management strategies in Hindukush Himalaya and South Asian Region. Hindukush Himalaya is most fragile region in world. It has 4 of the world 34 biodiversity hotspot and is the largest body of ice. He said by 2050, 40% of Asia's population will be in severe water scarcity. He also talked about build back better strategy to reduce the risk of disaster.</p>
	<p><b>Mr. Leonardo Piccinetti Managing Director, Europe for Business Ltd, EU Climate Pact Ambassador, Warrington, England, United Kingdom</b></p> <p>He talked about research excellence, boosting institutional networking, knowledge transfer framework, supporting sustainability. He talked about faster work packages by coordination and management, ethic requirement, capacity building, dissemination and exploration. He talked about specialized training to climate change in land and water management.</p>
	<p><b>Mr. Ratindra Khatri Crisis, Emergency and Disaster Management Specialist, Khatmandu Nepal</b></p> <p>He talked about disaster risk in Nepal. He said Nepal is highly susceptible to a range of hydrological and geophysical hazards. He said locals shared learning dialogues about people perception of flooding, damage and impact on pre, during and post-flood situations. He said 3 pillars are required for co-ordination structure for DRRM in Nepal. He mentioned about suggested measures- research programs, effective implementations, Investment- pre disaster&lt; post disaster, effective early warning mechanism</p>
	<p><b>Dr. Manish Goyal Associate Professor, Discipline of Civil Engineering IIT Indore</b></p> <p>He said Climate change is the average weather. He said Wind, temperature, atmospheric pressure, ocean currents storms control the weather and climate change. He talked about change in glacier and its extent can influence river runoff and availability of water in the Himalayan rivers. He talked about loss of glacier for the last 4 decades.</p>

	<p><b>Mr. Harshit Sharma, ECDRM Division, NIDM</b> He talked about concept of local administration- pre-disaster-post. Disaster management cell at local level will act as core team. He talked about vulnerability mapping of the locality and updates the vulnerability profile of the regular intervals. He talked about Capacity building of different stakeholders to be organised at regular intervals.</p>
	<p><b>Ms. Fatima Amin, Young Professional NIDM</b> She mentioned about different types of flood, drought, windstorms, slides, waves and surges and epidemic. She talked about assessment of information on hydroclimatic disasters, increase budget for water related diseases, promote linkage between IWRM and water related disasters, raising awareness and promoting disaster knowledge.</p>
	<p><b>Dr. Richa Dave Nagar</b> showed vote of thanks to eminent speakers, participants, co-ordinators. <b>Dr. Renu Dhupper</b> also thanked everyone for their active participation.</p>



**DAY 3 Saturday 09.10.2021 -SESSION 4: Mainstreaming climate change into disaster risk management for the flood prone areas in India- Sustainable Models and blueprint of action.**







	<p>The fourth and final session of the conference was started with the welcome address by Dr. Richa Nagar, Assistant Professor, Amity Institute of Environmental Sciences, Amity University, Noida. She began by introducing briefly about the theme of the session and the need to discuss about the impacts of climate change on hydrological balance of the planet. The prestigious panel was then introduced starting with Dr. Archana Sarkar, Scientist E, National Institute of hydrology, Roorkee, India. Dr. Archana was felicitated with a Tulsi sapling virtually by Dr. Shashi Bhushan, Director, ASET, AUB, Patna.</p>
	<p><b><u>Dr. Archana Sarkar, Scientist E, National Institute of hydrology, Roorkee, India.</u></b> Dr. Archana Sarkar presented on the topic “Climate change and water resources in India: Present status and future impacts with special emphasis on water related disasters.” In her presentation she first talked about the causes and impacts of climate change in general briefing about the global disaster scenario related to climate change. She talked about LULC of climate change relating it with agriculture. Then she mentioned about the status and challenges of water resources in India at present. She talked about basin wise water resource potential of various rivers flowing in India and gradual loss of the Himalayan glacier. Then she talked about the climate change scenario according to IPCC AR5 in which she discussed about Representative concentration pathways (RCPs) of GHGs. She talked about the tools to predict and project climate change. Then she discussed about the case studies of Brahmaputra basin and Ganga river basin. She discussed about the snowmelt runoff modelling and mean annual stream flow for various seasons. She also talked about future projections of emissions where she said that emissions vary between scenarios depending upon socio-economic assumptions, levels of climate change mitigation and for aerosols and non-methane ozone precursors of air pollution. She concluded by adding that a climate impact analysis should be incorporated in the policy documents for planning and operation of water resources. In the end she was asked 4 questions by the listeners and she answered the questions with detailed explanations.</p>
	<p><b><u>Mr. Eklavya Prasad, Megh Pyne Abhiyaan</u></b> After Dr. Sarkar’s presentation and question answer session was over, Mr. Eklavya Prasad was invited for his presentation. Mr. Eklavya Prasad is a social development professional behind the Megh Pyne Abhiyan. After Dr. Richa Nagar gave a brief introduction about sir, he was felicitated with a Tulsi plant virtually by Dr. Manju Rawat Ranjan following which he started with his presentation on ‘Climate resilience: people’s perception’. He initiated by talking about the constituents of climate disaster and explained each component in detail. He talked about women’s vulnerability as an important issue amid climate disasters alongwith the way forward to improve the situation. He talked about his own experience during floods in Bihar in 2007. He talked about the problems with the farm based livelihood during floods and also the impact on ground water resources as a matter of concern. After the presentation was over, sir answered the questions of various listeners.</p>

	<p><b><u>Ms. Kopal Verma, junior consultant, NIDM</u></b> Ms. Komal Verma, junior consultant, NIDM was the next panelist after Mr. Prasad. Dr. Nagar gave a brief introduction of Ms. Komal Verma after which she was felicitated with a Tulsi plant virtually by Mr. Abhinav Sahay. Ms. Verma started off with her presentation on ‘wastes in water’ taking about marine debris and their impacts on entire ecosystem and health. She talked about waste plastics acting as marine debris. Then she explained about garbage patch through a short yet informative video. She explained the ghost fishing cycle and how deadly it is for marine organisms as well as marine environment. Then after explaining about the facts and figures of marine plastic pollution she talked about the ways to revert the damage done. She talked about how on a community level this can be controlled. After her presentation was over, Ms. Verma answered few questions asked by listeners.</p>
	<p><b><u>Mr. Ramesh R. Tripathi, Project officer (flood manager and smart and sustainable communities/cities designer), WMO, Geneva</u></b> After Ms. Verma’s presentation, Mr. Ramesh R. Tripathi was invited as the next panelist for discussion. Mr. Tripathi is project officer (flood manager and smart and sustainable communities/cities designer), world meteorological organization, Geneva. After his brief introduction was given by Dr. Nagar, he was felicitated with a virtual Tulsi sapling by Dr. Ambrina. He gave a presentation on the topic ‘Mainstreaming climate change into disaster risk management for the flood prone areas.’ He initially talked about WMO and in UN system. Then he discusses about the hydrological value chain in flood forecasting and early warning. He also talked about flood risk management, its hazards and disasters. He talked about APFM- associated program flood management. Then he talked about flood risk mitigation measures- flood forecasting and mapping, risk sharing, warning, civil defense planning etc. He also talked about HyrdoSOS for Ganga, Brahmaputra Meghna basin. After his presentation was over, he answered few questions that were asked by the listeners.</p>
	<p><b><u>Dr. Sweta Baidya Das, Research associate, green growth sustainability and disaster management, NIDM, Delhi</u></b> Dr. Sweta Baidya Das was the next panelist who was briefly introduced by Dr. Nagar and was felicitated with a Tulsi sapling virtually by Dr. Anamika Srivastava. Dr. Das is a research associate, green growth, sustainability and disaster management, NIDM, Delhi. The topic of presentation of Dr. Das was ‘Integrating climate change strategies for future human habit’. She first talked about conceptual framework for city resilience and urban hub explaining about green roofs, rain water cleaning etc. She then discusses about smart buildings, social interiors and self contained neighborhood. In the end she talked about future smart village clusters. After her presentation was over she answered few of the questions asked by listeners.</p>
	<p><b><u>Mr. Michael Islary, Junior consultant, NIDM</u></b> Mr. Michael Islary was the next panelist for discussion. He is Junior consultant at NIDM. After Dr. Nagar gave a brief introduction about Mr. Islary, he was felicitated with a virtual Tulsi sapling by Mr. Umesh Kumar. The topic of his presentation was ‘Dams and disasters in North East India’. He firstly talked about the north eastern states and geographic features of the region. He also talked about the 2 major river systems of north east India- the Brahmaputra and the Barak river. Then he talked about the lower subansiri hydel project and other hydel projects in the region.</p>



In the end of the session **Dr. Kartikeya Shukla** gave the vote of thanks to all the panelists and attendees and the session was concluded by Dr. Richa Nagar requesting the participants to join back for second half of the session at 3:45pm.



**DAY 3- Saturday 09.10.2021 VALEDICTORY SESSION**

	<p>Valedictory session was started with the welcome address given by Dr. Ambrina Sardar Khan, Assistant Professor-II, Amity Institute of Environmental Sciences, The valedictory session started with the curtain raiser followed with the invocation of Goddess Saraswati by rendition of Saraswati Vandana and the lighting of the lamp of knowledge in virtual mode.</p>
	<p>Dr. Richa D. Nagar, Assistant Professor-II, Amity Institute of Environmental Sciences welcomed Amity University with the blessings of Hon'ble Founder President Sir, Hon'ble Chancellor Sir, Hon'ble Vice Chancellor, and mentor AIES. The journey began three days ago with an aim and a hope that we will come together for a better understanding and solving the problems of climate change and disaster management, from technical/technological, policy and legal perspectives and suggest sustainable solutions</p>
	<p>The report Presentation was done by <b>Dr. Renu Dhupper</b>, Assistant Professor-III, Joint Coordinator, Amity Institute of Environmental Sciences, briefing the discussion and the deliberations made by various eminent speakers. She has highlighted the key points of the Conference cum Training programme and explained the outcomes achieved in detail.. Dr. Kartikey Shukla, Assistant Professor, Amity Institute of Environmental Sciences, announced the winners of poster presentation and abstract presentation. He also presented a video of all the posters.</p>
	<p><b><u>Prof. D. K. Bandopadhyay, Chief Advisor FPO / Chairman, Amity Law School, Mentor, Amity Institute of Environmental Sciences, Amity University Uttar Pradesh,</u></b> He congratulated for the success of Conference cum Training programme. He thanked NIDM for their support. He also thanked all the delegates and chief guest. He said that we started this program in working together for Climate change and their induced disasters.</p>
	<p><b><u>Prof. (Dr.) TR Venkatesh, Vice Chancellor, Amity University Uttar Pradesh</u></b> He appreciated and congratulated all the faculty members and team of Amity University and NIDM who were involved for doing excellent job, and he said we are looking forward to continuing to make the programs successful in future as well. He said that this has proved well, and this is one of the examples that if we work in coordination then we can do a very better so.</p>
	<p><b><u>Prof. (Dr.) Anil K. Gupta Prof. Professor &amp; Head of Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India</u></b> He appreciated the programme event for its great success. He said that the involvement of international experts, govt officials and students. The participation of everyone was really good. He talked about joining and working together with Amity University has provided interdisciplinary subjects. This conference has focused on policy makers which is very important. He talked about green initiative taken by Amity</p>



	<p>University. He also said that in the future we will come up with better ideas and will not waste even a drop of water.</p>
	<p><b><u>Prof. Dr. Viveknand Pandey, Pro-Vice Chancellor, Amity University, Patna</u></b> He congratulated for the success of Conference cum Training programme. He asked for the solutions for the disaster events in Bihar occurring everywhere. To this, Dr. Anil Gupta said drought proofing is required. Bihar road map for disaster has to be prepared. Ecosystem interventions should also be made for saving water and land during flood and drought. Participation of community is also important. Flood prone areas are also becoming drought prone. He talked about multiple hazard management.</p>
	<p><b><u>Mr. U Ramachandran, Sr. Vice President, Amity Educational Group, Amity University Patna (AUP), Bihar</u></b> He congratulated for the success of Conference cum Training programme. He also thanked all the deligatories. He was glad to be a part of this important issue. He said that climate induced hydrological disaster is becoming an emerging research topic. He said due to increasing population, water scarcity is increasing, and we are facing drought condition. It's high point that we adopt point source treatment and use economic instrument approach. He welcomed the chief guest Shri Sanjay Jha.</p>
	<p><b><u>Chief Guest-Shri Sanjay Kumar Jha, Minister-WRD, IPRD, Govt. of Bihar</u></b> He welcomed everyone. He talked about Bihar floods due to rivers which also originate from Nepal. He talked about erratic unpredictable rain and also due to cutting of trees in Nepal, flood is occurring frequently. India's GDP would fall by 3% if climate change by 1 degree. We are searching for the solution for Bihar flood and has also conducted international webinar. And we came with the solution that we should start reforestation in Bihar. 5 crore people participated for awareness for climate change.</p>
	<p>Guest of Honour- SCI. DPL. Glenn Banaguas- Chairman, US-ASEAN S&amp;T Fellows, Chairman, Asian Science Diplomats, Climate Diplomat, EU-Asia Expert Panel for Climate Diplomacy and Environmental Security He thanked everyone. We need planning and collaboration to deal with climate change. He talked about Climate smart Phillipine. Land zoning, approaches, climate proofing, sustainable resource management, climate smart harvesting system, use of traditional knowledge, increased public investment could help in reducing climate change. He explained about climate resilient</p>
	<p><b><u>Prof (Dr.) Shashi Bhuvan, Director ASET Amity University, Patna</u></b> He appreciated the programme event for its great success. He thanked everyone. He talked about the mass concern of this topic. He talked about 4 aspect-awareness, prepare , respond, mitigation, rescue and recover. He mentioned about the findings of research scholar. He showed gratitude towards eminent speaker. 100 research papers were selected for the conference. He showed heartfelt gratitude to Chief guest and guest of honor.</p>



	<p><b>Mr. Satish</b> had been the constant support throughout the conduction of the conference cum training program. He was responsible for the timely coordinating with the speakers and maintaining logistics.</p>
	<p><b>Mr. Naresh</b> played a key role in overall editing, presenting and sharing the videos and the presentations throughout the conference cum training. The report has been prepared with his sincere efforts.</p>

## KEY TAKEAWAYS

### Participants will-

1. Develop an understanding in the field of climate change and climate induced disasters and the skills needed to work in this area.
2. Explore how to use research findings to address the problems of climate change and natural disasters.
3. Learn how to develop an appropriate environment and to address the complexities and uncertainties due to climate change and frequent disasters.
4. Identify opportunities and recent strategies for mitigating and managing the various natural disasters.
5. Gain actionable insights into the hydrological disasters that are induced or triggered by weather extreme conditions.
6. Understand the latest technology and tools to evaluate the impact of human activities on environment, and established linkages between the climate change and increased disasters.
7. Explore ways to design and gauge impactful research that would lead to the sustainable solutions to the climate change and disasters.

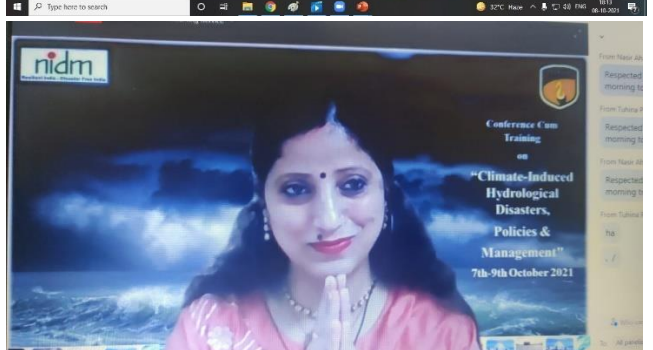
## ANNEXURE -I: Photographs of Session

### Day-1

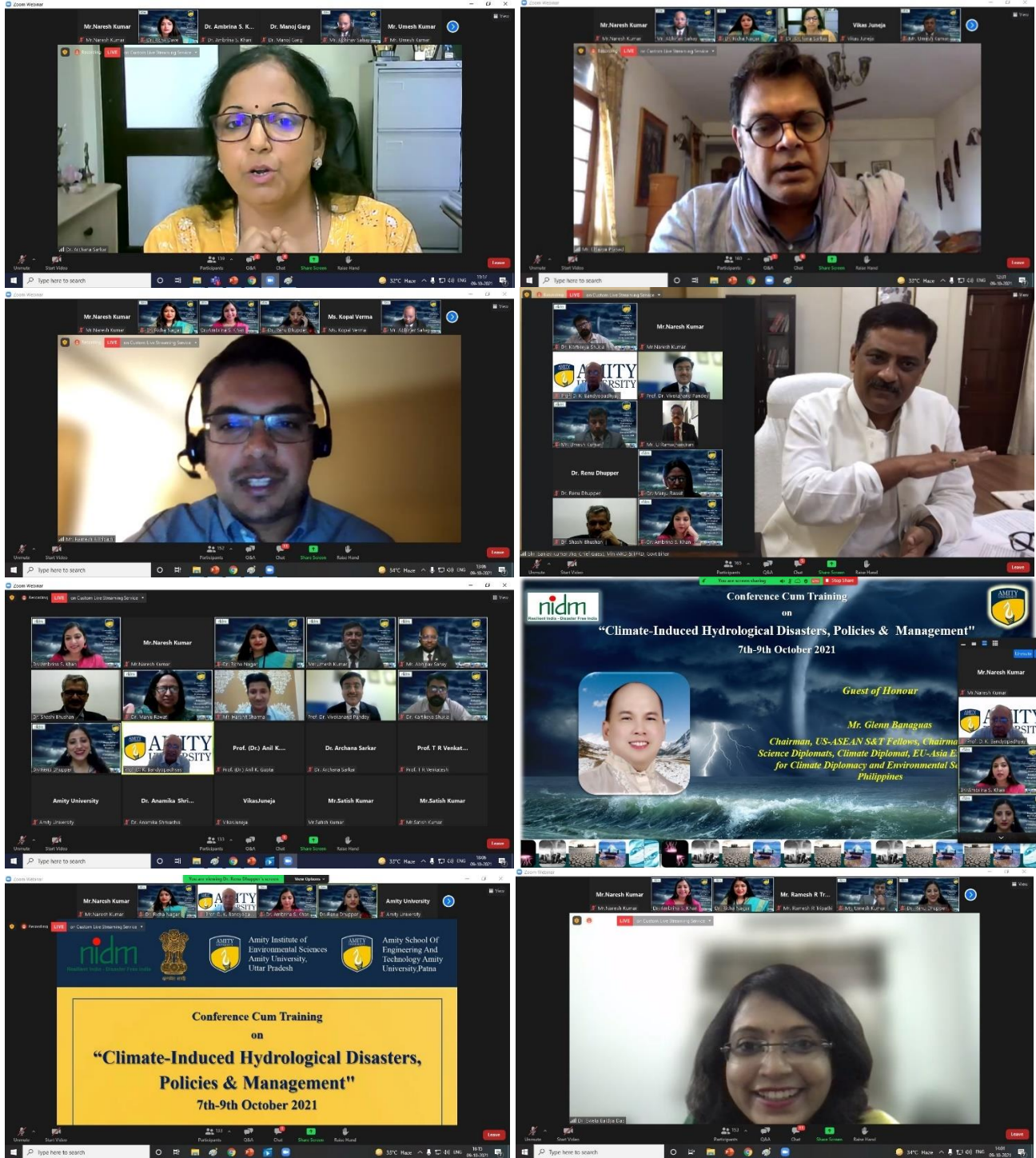




## Day-2



**Day- 3**



The collage consists of seven screenshots from a Zoom meeting:

- Top Left:** A woman with glasses and a yellow top speaking.
- Top Right:** A man with glasses and a white shirt speaking.
- Middle Left:** A man wearing a headset and glasses speaking.
- Middle Right:** A man in a white shirt speaking, with a grid of other participants visible in the background.
- Bottom Left:** A grid of 16 small video feeds of various participants.
- Bottom Middle:** A presentation slide titled "Conference Cum Training on 'Climate-Induced Hydrological Disasters, Policies & Management'" dated 7th-9th October 2021. It features a portrait of Mr. Glenn Banaguas, Chairman of US-ASEAN S&T Fellows, and lists his credentials as a Science Diplomat, Climate Diplomat, EU-Asia Science Diplomat, and Environmental Science Diplomat for the Philippines.
- Bottom Right:** A woman with glasses smiling, with a grid of other participants visible in the background.



### ANNEXURE -II: List of Participants

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### ANNEXURE -III: Feedback of the Participants

