

Summary Report

One Week National Level Training Programme

“Disaster Risk, Vulnerability Assessment and Management”

29th June to 3rd July 2020



Organized jointly by

National Institute of Disaster Management

Ministry of Home Affairs, Govt. of India
New Delhi – 110 001

&

Department of Civil Engineering

Delhi Technological University

Bawana Road, Shahbad, Daulatpur,
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Content

- **Introduction**
- **Objectives of the Program**
- **Day-wise Summary**
- **Key Recommendations**
- **Organizing Team &Speakers**
- **List of Participants**
- **Photographs**

One Weeks National Training Program
“Disaster Risk, Vulnerability Assessment and Management”

29th June to 3rd July 2020

Introduction

Delhi Technological University of Delhi in collaboration with National Institute of Disaster Management organized One Weeks National Training Program on “Disaster Risk, Vulnerability Assessment and Management” from 29th June to 3rd July 2020. Over the years, occurrence of various disasters has caused extensive damage to life and property and have adversely impacted economic development. The rapid growth of the human population and its increased concentration often in hazardous environment has escalated both the frequency and severity of disasters. India being one of the most hazard prone zone is susceptible to natural hazards. The community can protect itself from natural disasters by proper planning and management. There is an urgent need for continuous innovative and creative approaches based on latest scientific and technical know how to handle Disaster issues in future. The aim of the national training program was to explore and develop the understanding regarding the risks due to natural hazards and facilitating the way forward towards better plans and strategies for Vulnerability assessment disaster risk management and mitigation. The event was joined by about 358 participants from NIT’S, Central universities and different education and non-educational bodies all across the country.

Objectives of the training program

The training programme was carried out with the following objectives:

- To impart a sound knowledge to the participants to identify, prepare, assess and evaluate the disaster events and proper mitigating measures may be taken up in time
- The course/study will be useful to improve the safety assessment measures taken in country and thus enhance the disaster mitigation capability in the country.
- To interact on cutting-edge and ground-breaking topics in hazard assessment/ risk assessment disaster resistant design, retrofitting and sensitization, awareness and education to masses mitigate the hazards.
- To introduce new areas of research in the field of Disaster mitigation and management to the faculty.
- To understand the global risks and challenges due climate change induced disasters.

Area of Focus

- ❖ Methods of Vulnerability and Risk Assessment
- ❖ Disaster Management Cycle and Framework
- ❖ Disaster mitigation studies on disaster mitigation
- ❖ Pre-disaster, post-disaster awareness & preparedness
- ❖ Microzonation of a region
- ❖ Linkage among development, climate change, urbanization and disaster management.
- ❖ Application of GIS and Remote Sensing in Disaster Management
- ❖ Role of Human values in Disaster management

Summary: Day 1, (June 29, 2020) of National training program

First day of the course commenced with the talks of Maj Gen Manoj Kumar Bindal (Executive Director, NIDM). Prof. (Dr.) Nirendra Dev, HOD of Civil Engg. Department, DTU Delhi appreciated the program organized by Civil Department in his speech. Dr. Pradeep K Goyal, Associate Prof. Civil Engg. Department, DTU, Delhi and Course coordinator explained the aims and objectives of the event. Professor Anil K Gupta (Professor & Head ECDRM, NIDM) discussed about the strengthening disaster preparedness, response and early warning capacities and DRR is the integral part of sustainable development and it must be involved in the society, Government and Private sector. He also discussed in detail to make the system resilience during the disaster.

Dr. Rajiv Gupta, IIT Kanpur discussed on wind structure interaction, determination of loads on different structural forms, assessment of Aerodynamic response of Wind-Sensitive Structures and cyclone preparedness and mitigation.

Dr. Sushil Gupta, RMSI explained about the hazards at national level, concept of HRVA with example of Vijayawada city, composite vulnerability index and benefits of risk assessment.

Day 2, (June 30th , 2020) of National training program

Prof. Raju Sarkar, DTU, Delhi discussed about effect of Gorkha Nepal Earthquake and lesson learnt by this earthquake. He also explained that haphazard and unplanned settlements and poor construction practices are the other factors that have made highly vulnerable to earthquake. Atisha Sood discussed about the reduction in vulnerability and enhance adaptation measures to reduce adverse effects of climate change related disasters.

Ms. Richa Srivastav, NIDM explained about the process for development of disaster management plan. Further she explained that plan covers all phases of disaster management: prevention, mitigation, response and recovery. Prof. K.C. Tiwari, DTU, Delhi discussed about the various examples of GIS Applications and basic concept of GIS application, 3D and 2D Visualization of AVIRIS-NG Data and hyperspectral remote sensing. Dr. Pradeep K. Goyal, DTU, Delhi discussed about the different techniques used to describe the vulnerability assessment and explained the impact of Cyclone storms and mitigation plan.

Dr. Anjali Barwar, NIDM discussed about the Industrial hazards, chemical accidents and management of hazardous substances.

Day 3, (July 1st, 2020) of National training program

Dr. Pradeep K. Goyal, DTU, Delhi explained about the Cyclonic Microzonation and its use in wind design, land use management, estimating and mapping the potential damage to buildings, cyclone disaster mitigation and reliability of cyclone resistant constructions in the coastal regions in India.

Dr. Ajay Tiwari, Chancellor, Vivekananda University, Sagar discussed about the all practical activities of disaster management that has been done in the university campus.

Prof. Praveen Kumar, Director, NIT, Delhi discussed about the role of human values in individual life and disaster management.

Prof. J.P. Singhal, EX VC, University of Rajasthan explained about the education and role of human values in education and disaster management. He also emphasized about the strategies used during the disaster.

Prof. P. K. Mishra, BHU, Varanasi explained about the fire and chemical hazards and its management using various examples. He also discussed about causes of major accidents and the strategies that should be adopted during the fire hazards.

Day 4, (July 2nd, 2020) of National training program

Prof.CVR Murty, Professor, Department of Civil Engineering, IIT, Madras and Ex. Director, IIT Jodhpur explained about the earthquake disaster mitigation and management in India. He discussed about the level of disaster, economics of earthquake safety, earthquake safety and structural safety peer review.

Mr. Ashish Kumar Panda, NIDM discussed about the Forest, wild life and Disaster Risk Reduction. He explained about the assessment of climate change in Indian reason.

Prof. A.K. Srivastav, DTU, Delhi explained about the landslide hazard & warning system. He also described about the land slide and landslide hazard zonation.

Day 5, (July 3rd, 2020) of National training program

Dr. Mahesh Jat, MNIT Jaipur discussed about the Flood hazards, Flood measurements and techniques for flood hazard assessment. He also discussed the role of Geographical system and remote sensing in disaster management.

Dr. Manish Kumar Goyal, IIT Indore explained about the drought and climate change in India. He discussed the occurrence of drought for different years and concurrent droughts. He discussed a study carried out regarding drought characterization based on severity, spatial extent and trend analysis in all major river basins of India. Basically, drought has been characterized in four sections as meteorological, hydrological, soil moisture and vegetation and studied on the basis of frequency, severity, spatial/temporal extent, drought trend, concurrent drought and drought evolution.

Mr. Dwijendra Pandey, Research scholar, DTU, Delhi discussed the application of GIS and remote sensing in the disaster management and explained about the geographical mapping for COVID 19 in Indian context.

In Valedictory Session, Dr. Anil Gupta- Professor, NIDM, congratulated the resource persons and lecturers for successfully contributing to the program. Dr. Manoj Bindal, The Executive Director, NIDM, enlightened the attendees on disaster risk management and congratulated the organizers for successful completion of the course.

Key Recommendations

1. Training programme on disaster risk, vulnerability Assessment and Management are the need of hour to aware the participants on disaster risk, preparedness, response and recovery. Country needs to in order the national and local level disaster resilience bye laws. There is need to arrange such type of training programme as to aware the society and enhance the technical competence.
2. Training programmes are necessary to develop at least minimum ability to the stakeholders to keep the country safe from all the disasters. The objective of such type of training programmes to impart the knowledge to participants about the disasters and their mitigation and management techniques.
3. For multi hazards risk management, there is a need to develop and implement a country wide Multi-Hazard Early Warning System and enhance use of climate information in planning and decision-making across all sectors.
4. Seismic safety needs to be emphasized and it is essential to review the local building regulations for setting the standards for planning, designating and execution. Building collapses due to the earthquake results the majority of deaths and injuries. Building norms ensure safety of building. It is suggested that involvement of technical experts in designing of earthquake resistant structures should be mandatory and subject of earthquake resistant design should be compulsory in the undergraduate programme.
5. Protection from cyclone needs to be main focus risk management because one third population are vulnerable to cyclone related hazards. There is a need to take structural measures for preparedness and mitigation covering cyclone shelters, buildings, road links, culverts and bridges, canals, drains, saline embankments surface water tanks, cattle mounds and communication/power transmission networks.

Organizing Team

Patrons

Major Gen. Manoj Kumar Bindal, VSM Executive Director, NIDM
(Ministry of Home Affairs, Govt. of India)

Prof. Yogesh Singh
Hon'ble Vice Chancellor
Delhi Technological University, Delhi

Chairpersons

Dr. Anil K Gupta
Professor, HoD-ECDRM
National Institute of Disaster Management
(Ministry of Home Affairs, Govt. of India)

Prof. Nirendra Dev
HOD, Civil Engineering Department
Delhi Technological University, Delhi

Course Coordinator

Dr. Pradeep K. Goyal
Associate Professor
Dept. of Civil Engineering
Delhi Technological University, Delhi

National Level Training Programme
Disaster Risk, Vulnerability Assessment and Management

Organized jointly by
 National Institute of Disaster Management (NIDM) & Delhi Technological University (DTU)
 29th June to 3rd July 2020, 10:00 AM to 13:00 PM at Google meet

COURSE PATRON



Maj. Gen. M K Bindal
 Executive Director, NIDM

COURSE PATRON



Prof. Yogesh Singh
 Hon'ble Vice Chancellor, DTU

COURSE CHAIR



Prof. Anil K. Gupta
 Head ECDRM, NIDM

COURSE CHAIR



Prof. Nirendra Dev
 HOD, Civil Engg, DTU

COURSE COORDINATOR



Dr. P.K. Goyal,
 Associate Professor, DTU

SPEAKERS



CVR Murty
 Professor, IIT Madras



Dr. Sushil Gupta
 Assistant V P, RMSI



Dr. Rajeev Gupta
 Principal Research Engineer, IIT, Kanpur



Prof K C Tiwari
 Dept. of Civil Engineering DTU, Delhi



Prof. Praveen Kumar
 Director, NIT Delhi



Prof. P.K. Mishra
 IIT (BHU), Varanasi



Prof. Mahesh Jat
 Professor, MNIT, Jaipur



Ashish Panda
 Consultant, NIDM



Prof. A. K. Srivastava,
 Professor, DTU, Delhi



Dr Manish Kumar Goyal
 Associate Prof. IIT Indore



Prof. Raju Sarkar,
 Professor, DTU, Delhi



Richa Srivastava
 Consultant, NIDM



AGENDA



National Level Training Programme

Disaster Risk, Vulnerability Assessment and Management

Organized jointly by

National Institute of Disaster Management & Delhi Technological University

29th June to 3rd July 2020

Date	TIME	Topic and Speaker
Day 1 Monday 29 th June 2020	10 AM to 10.30AM	Inaugural Session
	10.30 AM to 11. 05 AM	Key note lecture on: Emerging frontiers in DRR: Infrastructure, Urban and Business Resilience – Planning and S&T Issues by Prof. Anil K. Gupta, Head ECDRM, NIDM
	11.05AM to 11.20 AM	Basics of Disaster Management by Ms. Thinles Chondol, Young Professional, NIDM
	11.20 AM to 11.30AM	Lightening and Thunders- Recent experiences by Col (Retd.) Sanjay Srivastava, CROPC-Lightning Resilient India Campaign.
	11.30 AM to 12 .15PM	Wind Disaster Mitigation by Dr Rajeev Gupta, IIT Kanpur
	12.15 AM to 1PM	Multi hazard Risk Assessment: A case study of Vijayawada City by Dr Sushil Gupta, RMSI
Day 2 Tuesday 30 th June 2020	10 AM to 10.45 AM	Pre and Post2015 Gorkha Nepal Earthquake Scenario-Lesson Learnt by Prof. Raju Sarkar, DTU, Delhi
	10.45 AM to 11 AM	National Health Adaptation Plan for Climate Change related Disasters by Atisha Sood, JRF, HEP-CAP Project
	11 AM to 11.15 AM	Disaster Resilient Agriculture by Richa Srivastava, Research Consultant, NIDM
	11.15 AM to 11.30 AM	Preparation of Crisis Management Plan: Sudden Water Contamination by Dr Sonal Bindal, Research Associate, NIDM
	11.30 AM to 12.15PM	Application of Remote Sensing &GIS in Disaster Management by Prof K C Tiwari, DTU, Delhi
	12.15 PM to 12.50 PM	Cyclonic Risk and Hazard Assessment by Dr P.K. Goyal, DTU, Delhi

	12.50 PM to 1 PM	Industrial Hazards chemical accidents control hazardous substance management, EIA on-site off-site plan by Dr Anjali Barwal, NIDM
Day 3 Wednesday 01.7.20	10 AM to 10.30AM	Cyclonic Microzonation by Dr P.K. Goyal, DTU
	10.30 AM to 11.00 AM	Practical Applications in Disaster Management by Vivekananda University, Sagar
	11AM to 11.30 AM	Human values in Disaster Management by Prof. Praveen Kumar, Director, NIT Delhi
	11.30 AM to 12.00 AM	Human values in Education & Disaster Management by Prof. J.P. Singhal Ex. VC, University of Rajasthan, Jaipur
	12 Noon to 1 PM	Fire & Chemical Hazardous in Process Industries by Prof. P.K Mishra, IIT (BHU), Varanasi
Day 4 Thursday (2.7.20)	10 AM to 11.30 AM	Earthquake Disaster Mitigation by CVR Murty, IIT Madras
	11.30 AM to 12.15 PM	Forest, Wild Life and Disaster Risk Reduction, by Ashish Panda, NIDM
	12.15 PM to 1 PM	Landslide Hazard and Warning System by Prof. A. K Srivastava, DTU
Day 5 Friday (3.7.20)	10 AM to 10.45 AM	Flood Disaster Mitigation & GIS by Dr Mahesh Jat, MNIT Jaipur
	10.45 AM to 11.15 AM	Demonstration of GIS by Dwijendra Pandey, Research Scholar, DTU
	11.15 AM to 12 Noon	Drought-trends, occurrence and concurrent by Dr Manish Kumar Goyal, IIT Indore
	12.00 Noon to 12.30 PM	Presentation by Participants
	12.30 PM to 1 PM	Valedictory

ABOUT DTU

With a history stretching back over 69 years, providing an academic milieu amid adequate space for ingenious research as an integral part of curriculum design, Delhi Technological University is strongly identified with engineering education in India. The University has been a forerunner, and led the way in reform movement maintaining a compatibility with values and professional morality. DTU takes pride in being one of the major contributors in planning and construction of India's infrastructure. In DTU we endorse and cultivate the purity of mind as the strongest currency, with an impressive resolve to renovate and upgrade our knowledge infrastructure. DTU aspires to be ranked amongst the leading universities globally. Consequently, DTU's mission is to edify individuals to be competitive not only in India, but all over the world.

ABOUT NIDM

National Institute of Disaster Management (NIDM), Ministry of Home Affairs, and Government of India is a premier institute and a Statutory Body (under Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management in India and in the region. The institute lays emphasis on multi-stakeholder interdisciplinary cross-sectoral approach for an effective and efficient proactive continuum disaster risk management based on participatory integrated multi-hazard-risk management concept.

Patrons

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Executive Director, NIDM
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Course Coordinator

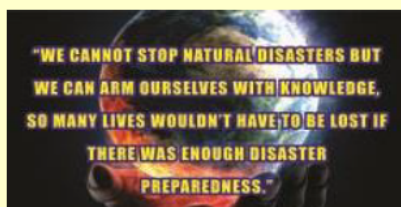
Dr. Pradeep K. Goyal
Associate Professor
Dept. of Civil Engg, DTU

IMPORTANT DATE

Last date of Registration: 26th June 2020

FOR ANY QUERIES CONTACT

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National Level Training Programme

Disaster Risk, Vulnerability Assessment and Management

(29th June – 3rd July, 2020)



Organized jointly by

National Institute of Disaster Management

Ministry of Home Affairs, Govt. of India
New Delhi – 110 001

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Department of Civil Engineering Delhi Technological University

Bawana Road, Shahbad, Daulatpur,
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Introduction

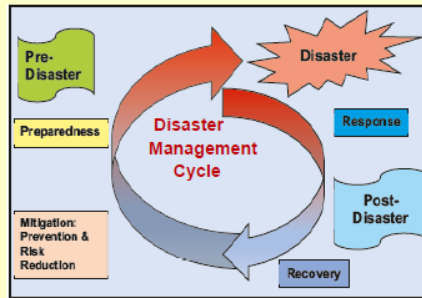
Over the years, occurrence of various disasters has caused extensive damage to life and property and have adversely impacted economic development. The rapid growth of the human population and its increased concentration often in hazardous environment has escalated both the frequency and severity of disasters.

India being one of the most hazard prone zone is susceptible to natural hazards. The community can protect itself from natural disasters by proper planning and management. There is an urgent need for continuous innovative and creative approaches based on latest scientific and technical know how to handle Disaster issues in future.

Objectives

- The objective of this program is to impart a sound knowledge to the participants to identify, prepare, assess and evaluate the disaster events and proper mitigating measures may be taken up in time
- The course/study will be useful to improve the safety assessment measures taken in country and thus enhance the disaster mitigation capability in the country.
- To interact on cutting-edge and ground-breaking topics in hazard assessment/ risk assessment disaster resistant design, retrofitting and sensitization, awareness and education to masses mitigate the hazards.
- To introduce new areas of research in the field of Disaster mitigation and management to the faculty.

- To Understand the global risks and challenges due climate change induced disasters.



Course Content

Course will focus on the following areas:

- ❖ Basic knowledge of Disasters/ Extreme events.
- ❖ Methods of Vulnerability and Risk Assessment
- ❖ Disaster Management Cycle and Framework
- ❖ Disaster mitigation studies on disaster mitigation
- ❖ Pre-disaster, post-disaster awareness & preparedness
- ❖ Microzonation of a region
- ❖ Linkage among development, climate change, urbanization and disaster management.
- ❖ Application of GIS and Remote Sensing in Disaster Management
- ❖ Role of Human values in Disaster management

Target Group

The main target group for this program are:

- Professionals/officials from government departments, training institutes of environment, forests, water, PWD, police, health, power, irrigation, rural, agriculture, climate etc, faculty members / research scholars/ scientists from Universities/colleges, etc and representatives from NGOs also.
- National, state and local level disaster management professional including private sector and NGOs.

Date

The programme will be organized online from 29th June-3rd July 2020.

Registration

- There is no registration fee for the participants.
- Attendance is compulsory in at least in 90% days/sessions.
- For course registration, please click the following link- <https://forms.gle/ZbHqC5MmpAaHSP8n7>

Certificate

An e- certificate will be awarded to each participant jointly by DTU and NIDM on the successful completion of the training program only after attending the full course.

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One Week National Training Programme

on

“Disaster Risk, Vulnerability Assessment and Management”

(June 29th - July 3rd, 2020)

Jointly Organized by

**National Institute of Disaster Management and Delhi Technological
University**

Certificate of participation

This is to certify that Mr./Ms./Mrs./Dr./ <<Name>> participated in the One-Week Online National Training Program on “Disaster Risk, Vulnerability Assessment and Management” jointly organized by National Institute of Disaster Management, Delhi and Department of Civil Engineering, Delhi Technological University, Delhi during June 29th - July 3rd, 2020.

Dr. Pradeep K. Goyal
Associate Professor
Dept. of Civil Engineering
Delhi Technological University, Delhi

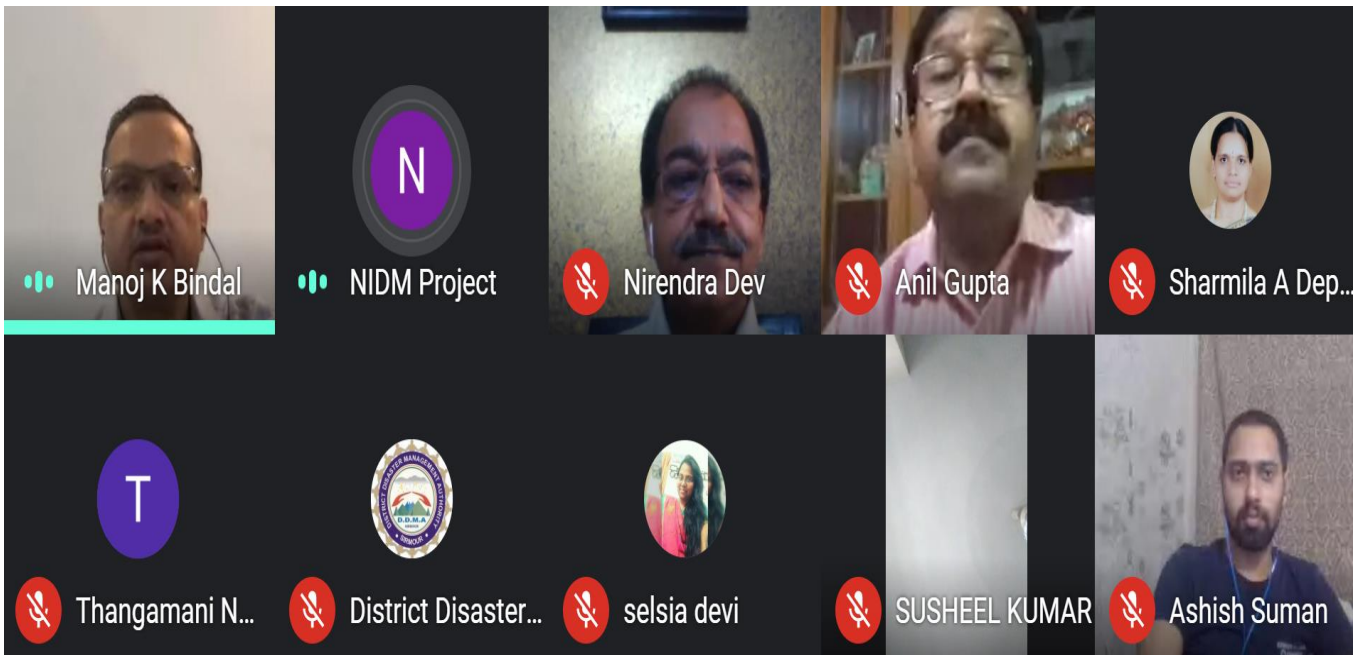
Prof. Nirendra Dev
Professor & Head
Dept. of Civil Engineering
Delhi Technological University, Delhi

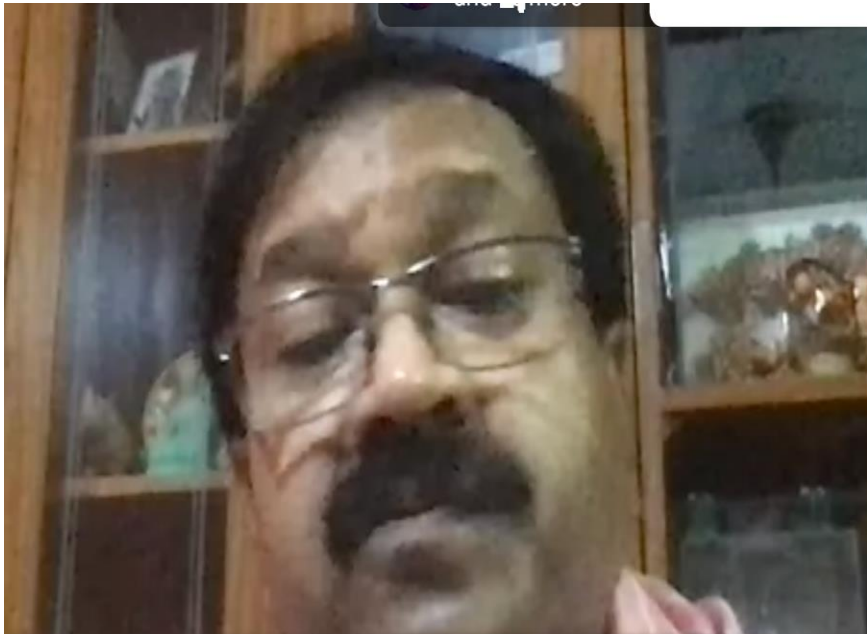
Dr. Anil K Gupta
Professor,
National Institute of Disaster Management
(Ministry of Home Affairs, Govt. of India)

Maj. Gen. Manoj Kumar Bindal
Executive Director,
National Institute of Disaster Management
(Ministry of Home Affairs, Govt. of India)

Photographs

Inaugural Session





You

Manoj K Bindal



NIDM Project



NIDM Project



Anil Gupta

REC

b basavangowda...
and 123 more

126

99+



Dr C Prakasa sam
and 104 more

107

99+

12:54



Day 1 (29th June 2020)

Anil Gupta is presenting

Akella nagasai b... and 100 more

Emerging Issues in DRR: Infrastructure, Urban and Business Resilience

Middle Path

Dr. Anil Kumar Gupta
Professor & Head of Environment and DRR Division
National Institute of Disaster Management, New Delhi

AnilG/2020

YouTube

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Dr. Balaji N C and 101 more

104

41



Alok Pandey has left the meeting

Top chat replay

- Jayanthi J sekar Good morning to everyone
- RAMA PRAMANICK good morning
- Hanuman Agarwal Good morning
- R.Anitha Shekar good morning everyone
- Dr.JANGA RADHAKRISHNA Good morning everyone
- RAMA PRAMANICK kab hoga start
- Hanuman Agarwal when it will start
- karthikeyan Angmuthu good morning sir
- Saurabh Sharma** session is started
- A.K.S Bhadauria good morning to everyone
- naveen nalwa good morning
- Kevin Thomas Good morning to all
- Md. Waseem Good morning to all
- Saurabh Sharma** All are requested to fill attendance which is available in description box.
- brij bhushan Good morning all
- gayathri gayathri good morning sir

HIDE CHAT REPLAY

REC Anil Gupta is presenting



Principles of Disaster Risk Management

National Level Training Programme on
DISASTER RISK VULNERABILITY ASSESSMENT AND MANAGEMENT

Thinles Chondol
Young Professional
Environment Climate And Disaster Risk Management Division (ECDRM)
National Institute of Disaster Management, Ministry of Home Affairs

1:45:34 / 3:40:48

YouTube Search

REC Sanjay Srivastava is presenting Pradeep Goyal and 121 more



National Level Training Programme Disaster Risk, Vulnerability assessment and Management


Lightning and thunders – recent experiences

Presentation by
Col Sanjay Srivastava
Convener, Lightning Resilient India Campaign
Joint initiative of CROPC- IMD, MoES, GoI
Email sanjaysonisa@gmail.com Mob +917631089049

Date : 29 Ju meet.google.com is sharing your screen. Stop sharing Hide , New Delhi

YouTube Search

REC Rupanwita Poyr... and 129 more



Mahantesh Kanthi has left the meeting

Training Session Live Stream 2020
Unlisted

REC Rajeev Gupta is presenting ANIKET KUMAR ... and 123 more 03:126 99+

Wind Disaster Mitigation and Management

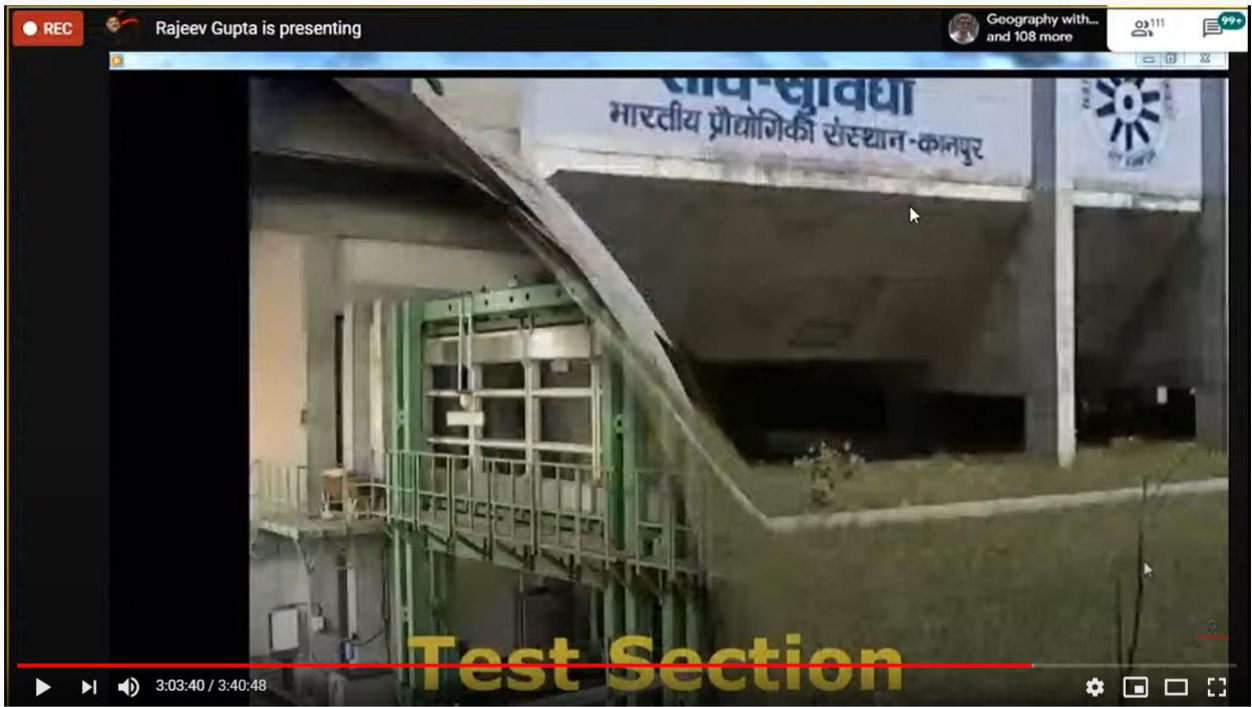
Dr. Rajeev Gupta
Principal Research Engineer (Academics)

2:31:01 / 3:40:48
prahad panek has left the meeting
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Disaster Risk Vulnerability Assessment and Management (2020-06-28 at 22:27 GMT-7)

3:18:32

Rajiv Gupta 1:03:42 / 7:51:10



Training Session Live Stream 2020

Unlisted



Multi-hazard Risk Assessment: A case study of Vijayawada city

Dr. Sushil Gupta,
Assistant Vice President, Risk Modeling and Insurance,
RMSI
June 29, 2020



National Level Training Programme Disaster Risk, Vulnerability Assessment and Management, jointly organized by National Institute of Disaster Management



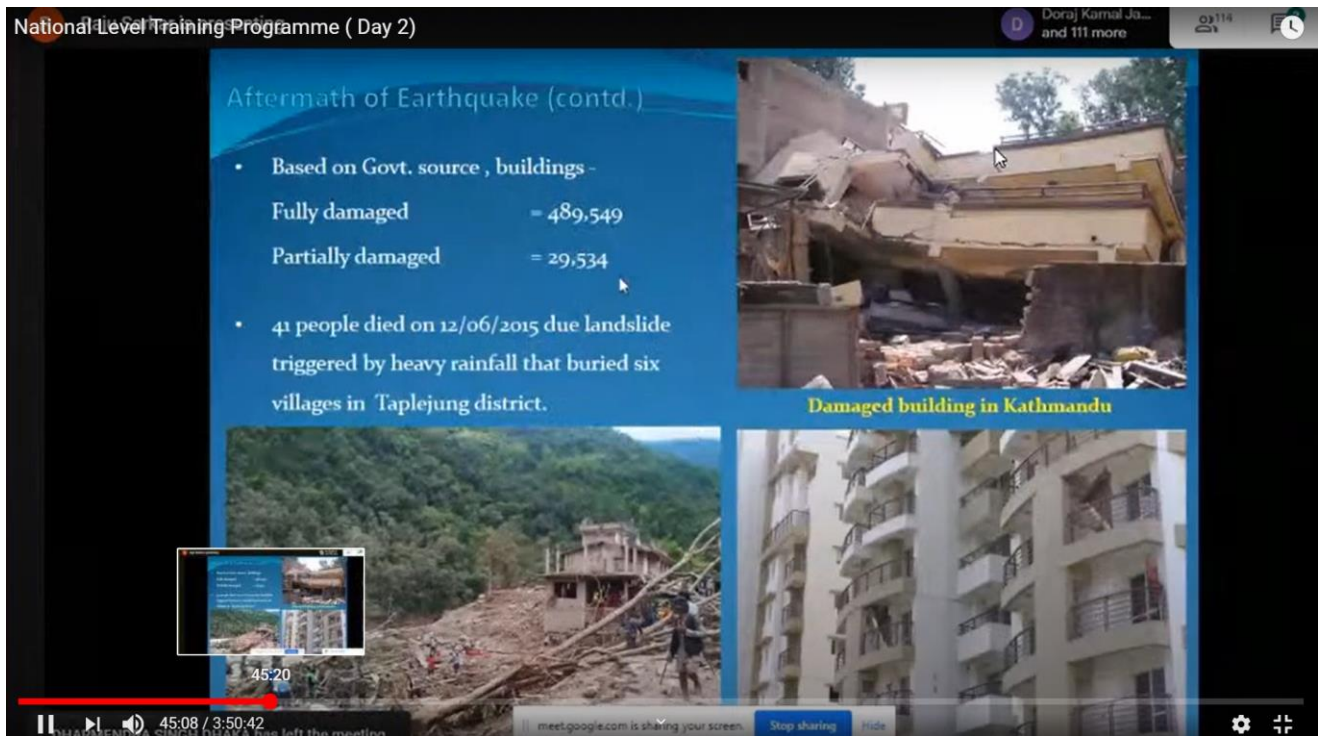
Day 2 (30th June 2020)

National Level Training Programme (Day 2) Doraj Kamal Ja... and 111 more

Aftermath of Earthquake (contd.)

- Based on Govt. source , buildings -
 - Fully damaged = 489,549
 - Partially damaged = 29,534
- 41 people died on 12/06/2015 due landslide triggered by heavy rainfall that buried six villages in Taplejung district.

Damaged building in Kathmandu



45:20

45:08 / 3:50:42

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National Level Training Programme (Day 2) and 128 more





Preparation of Crisis Management Plan: Sudden Water Contamination

*National Level Training Programme on
"Disaster Risk, Vulnerability Assessment and Management"*

Organized jointly by

National Institute of Disaster Management & Delhi Technological University

29th June-3rd July 2020



Sonal Bindal

Research Associate (ECDRM Division)

Email Id: sonal.nidm@gmail.com

Activate Windows

Go to Settings to activate Windows

National Institute of Disaster Management Ministry of Home Affairs



Disaster Resilient Agriculture

Richa Srivastava

Anjali B. is presenting


GAURAV MISHRA and 92 more

13:18

Industrial Hazards Chemical Accidents ppt.pptx (Protected View) - PowerPoint (Product Activation failed)

FILE HOME INSERT DESIGN TRANSITIONS ANIMATIONS SLIDE SHOW REVIEW VIEW Font PDF Omprakash Ramani

Industrial Accidents Hazardous Substance Control & Management Plan: On-Site/ Off-Site



Dr. Anjali Barwal
Project Sr. Associate
National Institute of Disaster Management
New Delhi

nidm
Resilient India

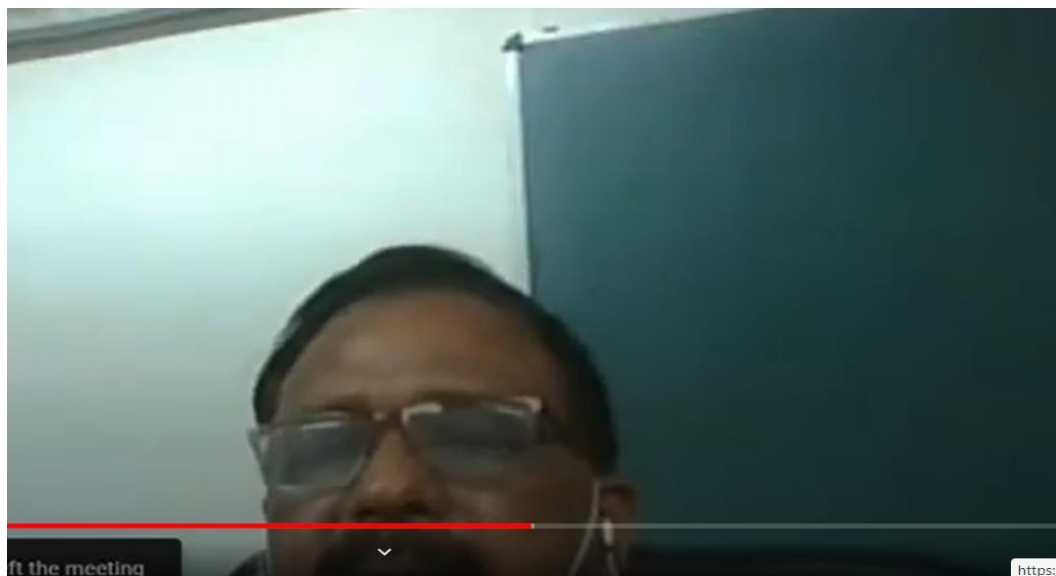
To use HP Password Manager, you need to install the Password Manager Chrome

Kailash Tiwari is presenting

Shilpa Pal and 107 more

12:5

Natural and Man Made Disasters that can be addressed by Remote Sensing and GIS/Geoinformatics



P Pradeep Goyal is presenting

nithya mbigal and 125 more

03/128 99+

Cyclonic risk and Hazard assessment

By

Dr Pradeep K. Goyal
Associate Professor
Dept. of Civil Engineering
Delhi Technological University, Delhi

(Day 2)

Munish Kumar and 126 more

03/129 99+



Settings Full Screen

Day 3 (1st July 2020)

National Level Training Programme (Day 3) navoon nalwa and 71 more 10:02 A

Press Esc to exit full screen

Cyclonic Microzonation

By

Dr. Pradeep K. Goyal
Dept. of Civil Engineering
Delhi Technological university
Delhi

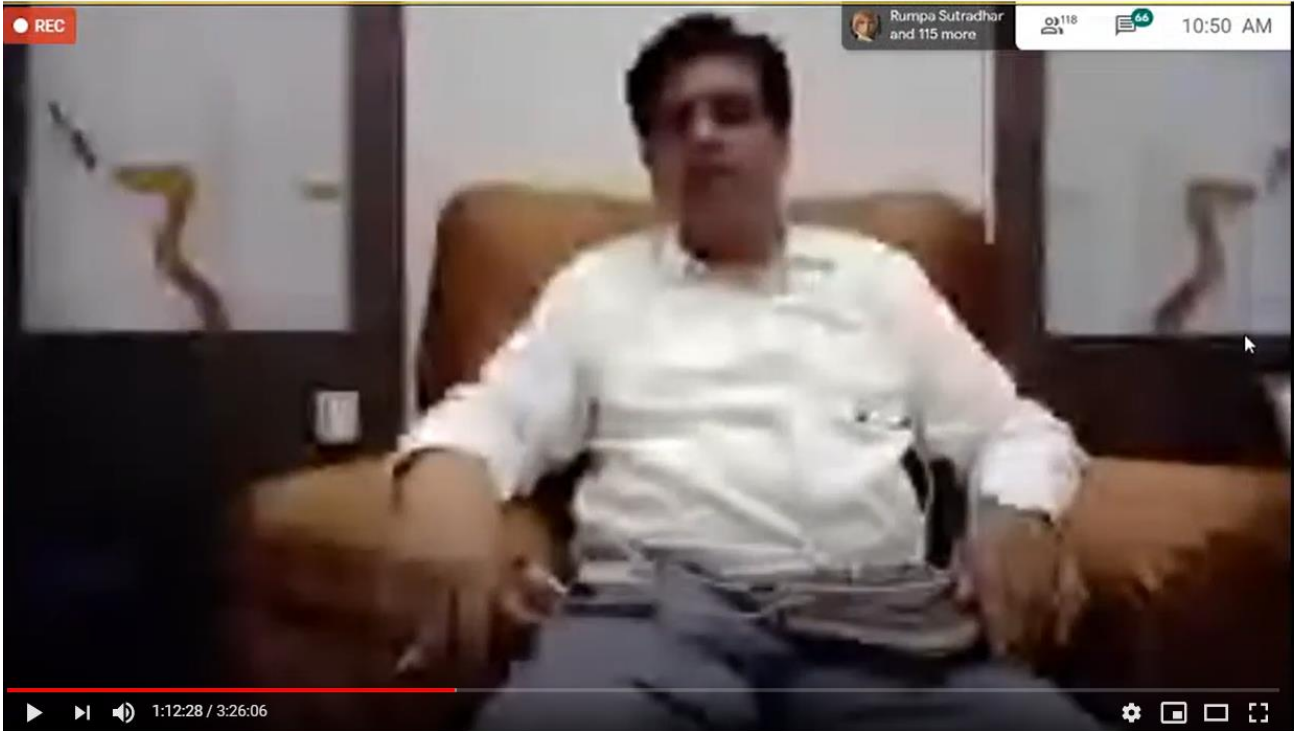
25:05 / 3:26:06

National Level Training Programme (Day 3) SANJEEV SINGH and 95 more 10:31 A

आत्मनो मोक्षार्थं जगद्धिताय चः
SAGAR



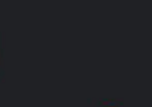


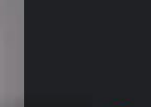

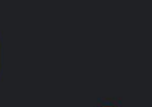

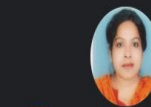
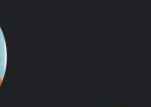



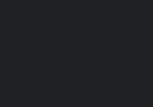

आपदा प्रबंधन विभाग स्वामी विवेकानंद विश्वविद्यालय सागर म.प्र.

53:50 / 3:26:06



Top



 <p>Jagdish Singhal</p>	 <p>nikhil prakash</p>	 <p>Harbakash Singh</p>	 <p>pooja tomar</p>	 <p>Geography with R...</p>	 <p>Rishi Sarkar</p>
 <p>Anitha R</p>	 <p>P V Ramireddy</p>	 <p>Rupanwita Poyra C...</p>	 <p>Rajat Sharma</p>	 <p>Sushil Gupta</p>	 <p>Anil Gupta</p>
 <p>sudatta wadadar</p>	 <p>Nivedha Elango</p>	 <p>Monisha mohan.m</p>	 <p>aneesah rahaman</p>		

REC

and 114 more



11:31 AM

You



nikhil prakash



Harbakash Singh



pooja tomar

Disaster Risk Vulnerability As... ^



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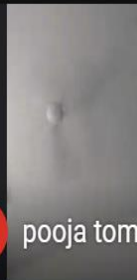
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pooja tomar



Geography wi...



Rishi Sarkar



P V Ramireddy



Dr.PK Mishra



Rupanwita Po...



Rajat Sharma



Anil Gupta



Monisha moh...



Jagdish Singh...



sudatta wada...



Sabyasachi Roy



aneesah raha...

Praveen Kumar

Sushil Gupta

Harbakhsh S...

pooja tomar

Rishi Sarkar

Anitha R

P V Ramireddy

Rajat Sharma

Anil Gupta

sudatta wada...

Nivedha Elango

Monisha moh...

aneesah raha...

Mohammad A...

Rupanwita Po...

Sushil Gupta

Geography with R. K. Shar...

Harbakhsh Singh

Dr.PK Mishra is presenting

Thanu Hegde N... and 110 more


12:11 PM

You

Fire & Chemical Hazards & Management [Compatibility Mode] - Microsoft PowerPoint

Case Studies

Place: Jalalpur Biswan, Sitapur (UP) Date of accident: 06/02/2020




Seven people died due to asphyxiation following the leakage of poisonous gas from an acid manufacturing unit. (Source: Indian Express, Hindustan Times)

Cause of accident: Tankers were cleaned and washed in the drain that through the canal unit, where seven people died on Wednesday night.

Dr.PK Mishra

nikhil prakash



Harbakhsh Singh

Dr.PK Mishra is presenting


Akella nagasai b... and 104 more

12:40 PM

You

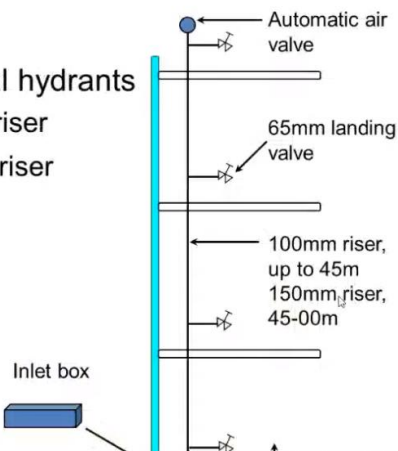
HYDRANTS

External hydrants



Internal hydrants

- Dry riser
- Wet riser



60

Dr.M.V.Krishna Rao Profes...

Anil Gupta

Dr.PK Mishra


Day 4 (2nd July 2020)

C V. R. Murty is presenting

jayanthi sekar and more

10:03 AM

You



C. V. R. Murty

Anil Gupta

rohit misra

Lakshmi Nar...

prahlad pareek

P V Ramireddy

Meeting details ^



Turn on captions

C. V. R. Murty is presenting



C. V. R. Murty is presenting

Chaya D Y and more

10:06 AM

You



FORESTS, ANIMALS AND DRR



Play (k)

1:20:05 / 3:02:30

Ashish Kumar Panda



LANDSLIDE HAZARD & WARNING SYSTEM



Dr. Amit Kumar Shrivastava
Professor, Deptt. of Civil Engineering
Associate Dean (O & EA)
Delhi Technological University, Delhi
M-9818162728 8800667128

Day 5 (3rd July 2020)

National Level Training Program

Disaster Risk, Vulnerability Assessment and Management

Organised by

NIDM, MoHA, Govt. of India *and* Delhi Technological University



Flood Disaster and Application of GIS

By

Dr. Mahesh K. Jat

Professor, Department of Civil Engineering

Malaviya National Institute of Technology Jaipur



pradeep goyal disaster risk

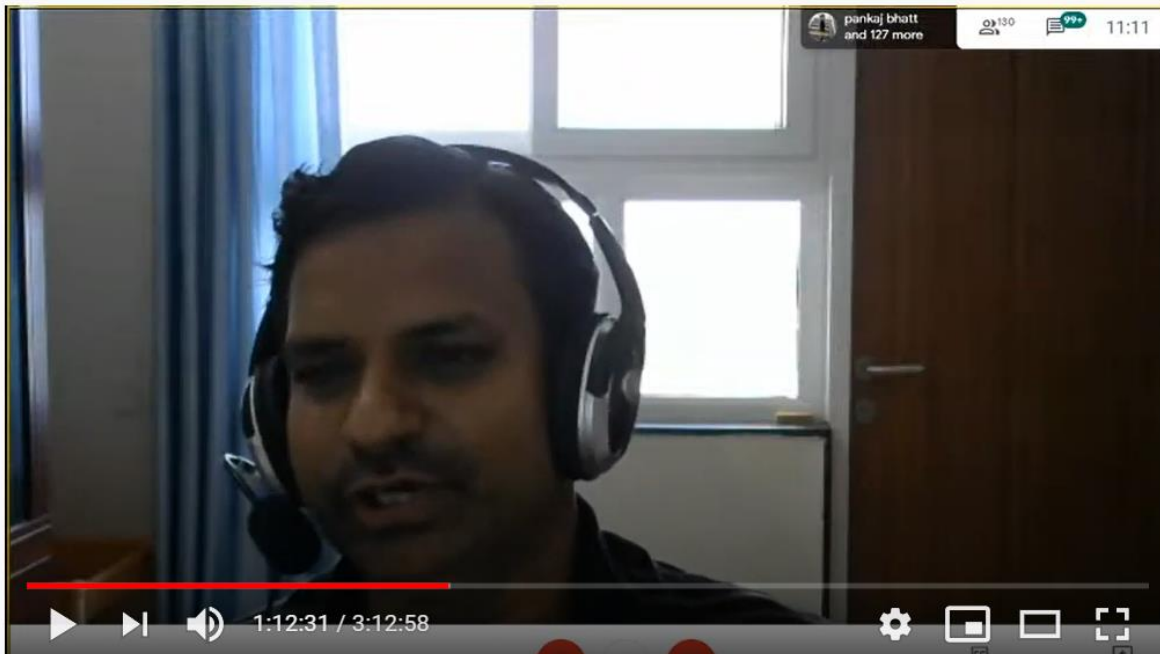


**Drought and Climate Change
Distribution, Trend, Concurrency and Evolution of Droughts over river
basin of India**

Dr Manish Kumar Goyal
Associate Professor
Civil Engineering Discipline
Indian Institute of Technology, Indore-452020
Email: mkgoyal@iiti.ac.in



pradeep goyal disaster risk



National Level Training Program (Day 5)

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Valedictory



