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Resilient India - Disaster Free India

सत्यमेव जयते

# Three days online Course on
# "Ecosystem Restoration and Disaster Management"

**Jointly Organized by**

**National Institute of Disaster Management (NIDM) , New Delhi**
**Society for Environment and Development (SED India) , New Delhi**
**Dept. of Environmental Sciences, Sri Venkateswara College, University of Delhi**

## Patrons

**Maj. Gen. M. K. Bindal**
**Executive Director**
**NIDM**

**Prof. C. Sheela Reddy**
**Principal**
**Sri Venkateswara College**

22-24 July 2021
1100-1330 Hrs.

Platform: StreamYard and YouTube Live

E-certificates will be provided to all participants
80% attendance is the minimum criteria for providing certificate.

**Registration with scan or https://training.nidm.gov.in**

- The participants will be registering themselves on NIDM training portal and then enroll for the course.
- After enrollment participants will receive a email confirming registration only.

## Web Streaming Team

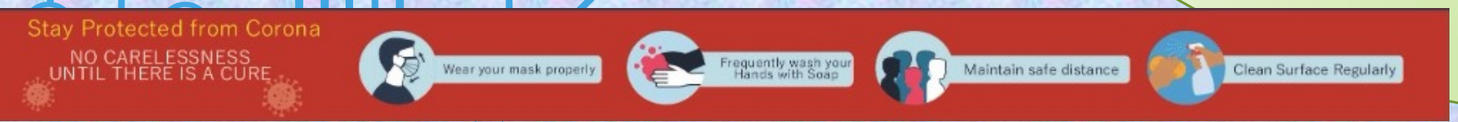
**Dr. C. Kandeepan**
SED India

**Dr. R. Jayakumararaj**
SED India

## Moderators

**Shri Arun Verma**
YP, NIDM

**Dr. Robin Suyesh**
Sri Venkateswara College




## Distinguished Speakers

**Prof. R. K. Maikhuri**
HNB Garhwal Central University

**Shri Ashish K Panda**
NIDM

**Dr. Hardeeprai Sharma**
Kurukshetra University

**Prof. S. R. Gupta**
Kurukshtra University

**Prof. G. P. Ganapathy**
Vellore Insttute of Technology

**Prof. Rajan Das**
Assam Agri. University

**Prof. K. S. Rao**
University of Delhi

**Dr. Avinash Sharma**
DBT-NCCS-Pune

**Prof. C. Rajasekaran**
Vellore Insttute of Technology

**Shri Shekher Chaturveti**
NIDM

## Course Coordinators

**Dr. Abhishek Chandra**
Sri Venkateswara College

## Course Highlights

- Ecosystem Restoration and Disaster Risk Reduction
- UN Decade of Ecological Restoration - Need and Way Forward
- Prevention & Control of Water Borne Diseases during Hydrologic Disaster
- Landslide Risk Reduction in the Changing Environment
- Institutional Framework for Disaster Risk reduction in the country
- Importance of Microbial Resource Centres in Conserving Microbial Diversity
- **Floristic Diversity and Disaster Management in Coastal Region**
- Environmental and Livelihood Security

**Contact to Course Coordinator Dr. Abhishek Chandra**
**Mobile 9868272798 Email ac@svc.ac.in**

# Three days Online Training Programme on Ecosystem Restoration and Disaster Management

## About the Program

From forests to peatlands to coasts, we all depend on healthy ecosystems for our survival. Ecosystems are defined as the interaction between living organisms - plants, animals, people - with their surroundings. This includes nature, but also human-made systems such as cities or farms. We are losing and destroying the foundations of our survival at an alarming rate. Over 4.7 million hectares of forests – an area larger than Denmark – are lost every year. That's one football pitch every three seconds. Over half of the world's wetlands have disappeared in the last century. Ecosystem loss is depriving the world of carbon sinks, like forests and peatlands, at a time humanity can least afford it. Global greenhouse gas emissions have grown for three consecutive years and the planet is one pace for potentially catastrophic climate change.

The emergence of COVID-19 has also shown just how disastrous the consequences of ecosystem loss can be. By shrinking the area of natural habitat for animals, we have created ideal conditions for pathogens – including coronaviruses – to spread. But we can build back better.

Ecosystem restoration is a global undertaking at massive scale. It means repairing billions of hectares of land so that people have access to food, clean water and jobs. It means bringing back plants and animals from the brink of extinction, from the peaks of mountains to the depths of the sea. But it also includes many small actions everyone can take, every day: growing trees, greening our cities, rewilding our gardens or cleaning up trash alongside rivers and coasts.

UN has also declared this decade as UN Decade on Ecosystem Restoration: A global rallying cry for everyone – from governments to corporations and citizens – to do their part in healing our ailing planet. This has seen its light from this year's World Environment Day. While a decade sounds like a long time, it is these next 10 years that scientists will advocate most in preventing catastrophic climate change and bending the curve on biodiversity loss. The timeline also overlaps with the UN Decade of Action to achieve the Sustainable Development Goals by 2030. Ecosystems are our lifeline and underpin all 17 goals.

Restoring ecosystems carries substantial benefits for people. For every dollar invested in restoration, at least seven to thirty dollars in returns for society can be expected. Restoration also creates jobs in rural areas where they are most needed. Some countries have already invested in restoration as part of their strategies to bounce back from COVID-19. Others are turning to restoration to help them adapt to a climate that is already changing.

(Source: www.worldenvironmentday.global/)

### Aim of the programme:

The main outcome of this programme will be sensitizing people with the knowledge of importance of ecosystem restoration and its linkages with disaster risk reduction.

## Objectives:

The key objectives are:

- Understanding basics of ecosystem and its restoration.
- Relationship of ecosystem restoration with disaster risk reduction
- Ecosystem restoration as a tool for livelihood sustenance.
- Awareness about Disaster Management Act 2005.

## Target Group:

The Target Audience for this programme would be Faculties, Researchers, Educators of University of Delhi and Sri Venkateswara College.

## Methodology:

Lectures, Power point presentations, video films & discussions.

## Duration:

This will be a two-hour program per day from 1100 hrs to 1330 hrs.

## Registration

The participants will be registering themselves on NIDM training portal https://training.nidm.gov.in and then enroll for the course.

## Certificate

The participants who register on NIDM training portal and ensure their attendance above 80% during the programme, they will be able to download their e-certificate from the same portal after submitting their feedback for the course.

Program Schedule:

| Time | Speaker | Topic |
|---|---|---|
| Day 1 (22 July 2021) Thursday | | |
| 1100-1120 Inaugural session | Welcome Address by Dr Abhishek Chandra, Assistant Professor, Department of Environmental Sciences, SVC, University of Delhi<br>Program Initiation: Shekher Chaturvedi, Assistant Professor, NIDM<br>Inaugural Speech by Prof. C Sheela Reddy, Principal, Sri Venkateswara College, University of Delhi, New Delhi<br>Keynote Address by Executive Director, NIDM, Major General Shri Manoj Kumar Bindal<br>Context Setting: by Dr Abhishek Chandra, SVC | |
| 1120-1200 | Shri Ashish Kumar Panda, Consultant and Faculty Member, NIDM | UN Decade of Ecological Restoration - Need and Way Forward |
| 1200-1240 | Prof. R.K. Maikhuri<br>Head, Department of Environmental Sciences, HNB Garhwal University, Sri Nagar Garhwal | Ecosystem Restoration and DRR in Himalaya through participatory Approach |
| 1240-1320 | Prof. G. P. Ganapathy<br>Centre for Disaster Mitigation and Management, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, | Landslide Risk Reduction in the Changing Environment |
| 1320-1330 | Moderator of the session | Shri Arun Verma, YP, NIDM/ Dr. Robin Suyesh, Asst. Prof., SVC |
| | Vote of thanks | Dr Abhishek Chandra, SVC |
| Day 2 (23 July 2021) Friday | | |
| 1100-1140 | Prof. S. R. Gupta<br>Emeritus Fellow<br>Department of Botany, Kurukshetra University, Kurukshetra - 136 119 Haryana (India) | Ecosystem restoration for achieving environmental and livelihood security |
| 1140-1220 | Dr. Avinash Sharma, Scientist-D,<br>DST- National Centre of Cell Science, Puna | Importance of Microbial Resource Centres in Conserving Microbial Diversity. |
| 1220-1300 | Prof. Rajan Das | Ecosystem Restoration in North East Region of India |

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| | Department of Crop Physiology, Assam Agricultural University, Jorhat785013 | |
| 1300-1325 | Dr. Abhishek Chandra,<br>Asstt. Prof., Department of Environmental Science, SVC,<br>University of Delhi | Environmental and livelihood security: A case study of Marginal People of Himalaya |
| 1325-1330 | Moderator of the session | Shri Arun Verma, YP, NIDM/ Dr. Robin Suyesh, Asst. Prof., SVC |
| Day 3 (24 July 2021) Saturday | | |
| 1100-1140 | Shekher Chaturvedi, Assistant Professor, NIDM | Institutional Framework for Disaster Risk reduction in the country. |
| 1140-1220 | Dr. Hardeeprai Sharma<br>Asstt. Prof. Institute of Environmental Studies, Kurukshetra University, Kurukshetra | Prevention & Control of Water Borne Diseases during Hydrologic Disaster |
| 1220-1300 | Prof. C. Rajsekaran, Department of Biotechnology, VIT, Valore TN | Coastal Biodiversity and DM |
| 1300-1340 | Prof. K.S. Rao<br>Department of Botany<br>University of Delhi | Ecological Restoration |
| | Moderator of the session | Shri Arun Verma, YP, NIDM/ Dr. Robin Suyesh, Asst. Prof., SVC |
| 1340-1400 | Concluding Remarks Shekher Chaturvedi, Asstt. Prof. NIDM<br>Valedictory Address Prof. K.S. Rao / Prof. C. Rajsekaran<br>Vote of thanks Dr Abhishek Chandra | |

Course Coordinator: Dr Abhishek Chandra, Asst. Prof., Department of Environmental Sciences, Sri Venkateswara College, University of Delhi and Shekher Chaturvedi, Asst. Prof. NIDM

Program Moderator: Shri Arun Verma, YP, NIDM and Dr. Robin Suyesh, Asst. Prof., SVC