



COUNCIL OF ARCHITECTURE  
TRAINING AND RESEARCH CENTRE  
BHOPAL - INDIA



IES COLLEGE OF ARCHITECTURE  
CHITILAPPLY THRISSUR  
KERALA - INDIA

## NATIONAL ONLINE FACULTY DEVELOPMENT PROGRAM

# DISASTER MANAGEMENT & URBAN RESILIENCE

# 05 days

**DATE : JULY 3 -7, 2023**

**12.45 pm to 4.00 pm**

### Preamble

In recent years, we have witnessed an increase in the frequency and intensity of natural disasters, such as earthquakes, floods, hurricanes, and wildfires, among others. These disasters have caused significant loss of lives, displacement of people, and destruction of infrastructure, leading to significant economic and social costs. This Faculty Development Program aims to provide participants with a comprehensive understanding of disaster management, urban resilience, different approaches to their mitigation & management, policies and guidelines related to urban disaster risk and the role of architects & institutions in disaster risk reduction.

This program will provide an opportunity for faculty members & architects to enhance their knowledge and skills in disaster management and urban resilience.

### Key Takeaways.

1. Guidance to understand urban vulnerabilities and its key drivers, development-resilience linkages and take appropriate actions to minimize the disaster risks and losses.
2. Impart knowledge related to designing resilient infrastructure that can withstand natural disasters such as earthquakes, floods, and landslides.
3. Provides an overview of key planning approaches, policies, strategies and actions needed to build resilience to disasters, as part of an overall strategy to achieve sustainable development.

**REGISTRATION FEE FOR BOTH ACADEMICIANS/  
PROFESSIONALS/PG AND PH.D STUDENTS having  
COA Number- INR 1500/-**  
Without COA Registration number INR 3000/-

**REGISTRATION ON FIRST COME FIRST SERVE BASIS  
Limited seats**

- Kindly send scanned images of payment proof on [coatrc.bhopal@gmail.com](mailto:coatrc.bhopal@gmail.com) to confirm registration.
  - VIRTUAL MEETING LINK will be shared only after registration via E mail.
  - E Certificates of the FDP shall be sent by email on the registered E mail ID of participant upon successful completion of the program i.e, by attending all sessions and completing
- \* MCQ test( conducted on the last day).  
MCQ TIME : 4.30 to 5:30 PM



**Scan to Register**



**Scan to Pay**

### Convenor

Dr. Navneet Munoth  
Hon .Director  
COA -TRC, Bhopal

### Coordinators

Prof. Shamsudeen. K. A  
Prof. Sujith K R  
Dean  
Asso.Prof. Vineetha. P S  
Vice principal

### Contact

**Online Coordinator**  
Asst. Prof .Sreekumar. AK  
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# SPEAKERS



DAY 1

## Session 01 July 3rd 2023

Role of Architects in Creating Building and Urban Resilience.



**Dr Vasudha Gokale**  
Professor at B.N.College of Architecture. Pune

After perusing Doctoral degree from IIT Roorkee, Dr Vasudha Gokale is in research in the areas of Disaster Management particularly in "Earthquake Resistant Architecture" and "Sustainable Architecture". She joined as Guest professor in University of Melbourne Australia and Victoria University of Wellington New Zealand in year 2006 and 2007. She is also associated with IIT Kanpur, and CEPT Ahmadabad. She has been awarded with Best teacher Award by MASA in 2008, Award for Excellent Contribution in Academics By IIA Pune Chapter in 2008-9, Best Teacher Award of University of Pune 2009 and "Maharshi Karve Award for Excellence" recently. She has more than 125 articles, published research papers on her account, currently she is working in the capacity of Professor & Head Research Cell Dr. B.N. College of Architecture Pune and member of Board of Studies University of Pune, India.

## Session 02 July 3rd 2023

Advanced Technologies for Disaster Risk Assessment



**Dr Ila Gupta**  
Director, Architecture & Planning  
Amity University Haryana.

Prof Ila Gupta, is an architect and urban planner with keen interest sustainable cities. She is presently working as Director at Amity School of Architecture and Planning, Amity University Gurugram. She did her Masters in Urban and Rural Planning from IIT Roorkee and PGDM (Public Relations) from Madras University. She has a PhD in Earthquake Disaster Management from IIT Roorkee. She has over 20 years experience in architecture and planning industry and academia. She has worked as disaster management consultant for organizations like UNDP, Govt of Punjab and Ministry of Home Affairs. She also coordinates the activities of Amity Mega-center for Natural and Manmade Calamities which is a critical research cluster of Amity University. Recently, she received 'Woman of Excellence' award from Indian Achievers Forum. She was also interviewed and covered as India's 10 must watch influential women leaders in higher education by higher education digest 2021.

DAY 2

## Session 01 - July 4<sup>th</sup> 2023

Modeling Urban Floods



**Dr Ratish Menon**  
Environmental Engineer  
Professor at (SSET) Karukutty, EKM

Ratish Menon is a professor at Dept of civil engineering at SSET. He has a PhD in environmental engineering from IIT Bombay and has been working in the urban environmental health sector for more than a decade. He has been a visiting researcher to Washington University in St Louis, USA and a visiting faculty to University of Applied Sciences Ravensburg Weingarten, Germany. He has provided consultancy services to many government and non governmental institutions in India and abroad on environmental data analysis and modelling. He has been part of several urban flood mapping and modelling efforts in Kerala. He is also a member of the board of studies for civil engineering at Kerala Technological University.

## Session 02 July 4<sup>th</sup> 2023

The characteristics of resilient urban systems & making cities resilient



**Prof Anand Khatri**  
Founding Director Urban Village Charitable Trust | Professor at AIT SAP

Anand is a senior architect and the founding director of Urban Village Charitable Trust (UVCT), a research repository working on urban informalities. He is a professor of architecture and the head of research at AIT SAP. He has been working on Inter-semiotic exchanges of arts and urbanization. In 2022, his policy under the task force 8, for Inclusive Cities, titled "Creating Inclusive Cities through Resilient and Adaptive Infrastructure Finance for Urban Informalities - Pathways for achieving SDG Goals in Asia and Africa" was accepted by G20. He has worked with the MoPR on the GPSDP plans for a Village in Jan 2021. In the year 2005, he was a consultant with PHTPB. With the OECF Japan through WAPCOS, he worked on Conservation strategies for five Ghats in Vrindavan and Mathura in 1996. In G20 India presidency, the communique: researches on urban villages was launched under the U20, Y20 in March 2023.

DAY 3

## Session 01 July 5<sup>th</sup> 2023

Buildings and Infrastructure for Earthquake prone areas



**Dr. Ashwin Kumar PC**  
IIT Roorkee, Department of Earthquake Engineering

Dr. Ashwin Kumar PC is a professor at Dept of Earthquake engineering at IIT Roorkee. He has a PhD in Structural engineering from IIT Delhi. Prior to joining the IIT Roorkee, Dr. Ashwin served as Senior Design Engineer in at EDR Pvt Ltd & WSP Global Inc. He had published several papers in several journals. He was honoured with the Star performer award for the year 2012 at WSP, India. His interests are in Seismic response and design of steel and reinforced concrete structures, Supplemental damping and energy dissipating devices, Seismic rehabilitation and retrofitting of steel and concrete structures, Large scale testing and simulation study of structural systems, Non-destructive assessment of structures.

# SPEAKERS

DAY 3

## Session 02 July 5<sup>TH</sup> 2023

Remote sensing & GIS for Urban DRR



**Ar. Aishwarya Narendr**  
*Climate Adapatation Planning Specialist, Kharagpur*

Aishwarya Narendr is Disaster Risk Resilience & Climate Adaptation Planning Specialist. She has 6+ years of experience in disaster risk assessment, geospatial data analysis, urban and regional planning, mentoring and teaching. She has recently submitted her PhD thesis at RCG school of Infrastructure Design and Management, Indian Institute of Technology Kharagpur. In her PhD she has developed a method called FReSMo (Flood Resilient Scenario Modelling) to assess the damage due to coastal flood impact on built-infrastructure. She has published her research in 4 reputed journal papers, 3 book chapters and 11 conferences. Her area of interest revolves around climate induced extremes, impact assessment, geo-spatial analysis and nature-based solutions.

DAY 4

## Session 01 July 6<sup>TH</sup> 2023

Urban Resilience and Climate Change



**Ar Sindhuja Kasthala**  
*Architect, Disaster Management & Climate Change Specialist*

Sindhuja Kasthala is an architect with experience in climate vulnerability, coastal policy, climate adaptation and mitigation, and disaster resilience. Her educational background includes a Bachelor's in Architecture from the School of Planning and Architecture Vijayawada (SPAV) and a Master's in Disaster Mitigation and Management from IIT Roorkee. She was a faculty member in the Department of Architecture and Planning at NIT Calicut for two years. She recently submitted her PhD thesis on integrating climate vulnerability and coastal policy impacts from IIT Bombay. In her thesis, she developed a web-GIS-based Decision Support System for environmental & social development and coastal policy governance. Sindhuja Kasthala was selected as one of the ten Berkner Fellowship recipients by the American Geophysical Union in 2022. She has been part of multiple national and international projects, including the Rajasthan State Action Plan on Climate Change.

## Session 02 - July 6<sup>TH</sup> 2023

Incorporation of Disaster Vulnerability into Land use planning



**Dr Neetu Kapoor**  
*Asst Prof NIT Hamirpur(HP)*

Dr Neetu Kapoor holds the position of Assistant Professor at NIT Hamirpur. She received her B.Arch (Hons) in Architecture from National Institute of Technology (NIT), Hamirpur (HP), India in 2005, M. Arch from Indian Institute of Technology (IIT), Roorkee, India and her PhD in Architecture from NIT Hamirpur (HP), India. She has been conferred upon "Outstanding Women Researcher" in Architecture Award, 2023. She has published in various Scopus/SCI indexed journals and also involved as a reviewer of journals like IRSPSD and ENVI (Environment, Development and Sustainability). She has been appointed as a member of the expert committee of NITI Aayog on 'Architectural Framework for Hill Regions'. She is editorial board member of International journal, Urban and Regional Planning, USA. She has a patent for developing a problem solving framework for site planning.

DAY 5

## Session 01 July 7<sup>TH</sup> 2023

Transportation Issues in Disaster Management



**Dr. Prashant Prasad**  
*Asst Professor BITS Mesra Ranchi*

Dr. Prashant Prasad holds the position of Assistant Professor at the Department of Architecture and Planning in Birla Institute of Technology Mesra, Ranchi. His area of research expertise encompasses Children's Mobility, Safety on Roads, NMT, and Travel Behaviour Study. Dr. Prasad obtained his Ph.D. and M.Tech Degrees from the Indian Institute of Technology Kharagpur, specializing in Transportation Management within Infrastructure Design and Management. He has been recognized for his scholarly contributions, having received the best paper award for the category of Institute Innovation at the 12th Eastern Asia Society for Transportation Studies (EASTS), held in Vietnam. In addition to this, Dr. Prasad is a DAAD scholarship recipient. Prior to pursuing higher education, he worked in the industry as a project architect for various corporate projects.

## Session 02 July 7<sup>TH</sup> 2023

Integrating Disaster Risk Management into planning and designing for Greenfield Sites.



**Mr. Amit K. Biswal**  
*Urban Planner Bhopal*

Amit Kumar Biswal is an urban planner currently based in Bhopal. He completed his master's degree in urban planning from MANIT, Bhopal, and his bachelor's degree in urban and regional planning from CET, Bhubaneswar. Mapping and GIS are his key interests. Recently, he participated in a GIS-based mapping competition organized by ISRO, AICTE, and IITB and ranked among the winners of that competition. He has also provided guest lectures on GIS and remote sensing. He had the opportunity to work with IPE Global on the ICZM project. He gained awareness of the disaster management process and the potential incorporation of GIS into it through his involvement in the coastal zone management plan. He also worked with IBI Groups on the master plan for street vendors in Bhubaneswar and recently worked with HUDCO on the slum rehabilitation of slum dwellers in Karnataka.