



A National Level River Hackathon “**RIVERATHON 1.0**”  
(Innovate to Revive, Restore, Rejuvenate River)



**AMITY**  
UNIVERSITY

AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY  
AMITY UNIVERSITY UTTAR PRADESH

IN COLLABORATION WITH

**NATIONAL MISSION OF CLEAN GANGA,**

Ministry of Jal Shakti, Department of Water Resources,  
River Development & Ganga Rejuvenation, Government of India

*Innovate to Revive, Restore, Rejuvenate River*

O R G A N I S E S

ONLINE WORKSHOP ON

# Innovate for River Restoration, Revival and Rejuvenation: Potential of LiDAR Technology

Date: 25 – 26 September 2025

Solution Partner



Registration is free

Registration  
QR Code



## Highlights of the Workshop

- Explore cutting-edge applications of LiDAR technology in river restoration, revival and rejuvenation.
- Learn from case studies and real-world applications of geospatial tools, next-gen technologies like AI, ML, Digital Twin in solving problems related to River.
- Sessions on ArcGIS Capability as Solution Platform for Riverathon

## Target Audience

- All Registered Participants of Riverathon
- Environmental Scientists, Researchers, Practitioners & Engineers
- NGOs & Industry Professionals



TIME	SESSION TOPIC	SPEAKER
<b>25<sup>th</sup> September, 2025   First Day</b>		
11:00 - 11:35 HRS	Welcome & Introduction to Riverathon: Themes, Goals & Flow of Event	Prof. Manoj Kumar Pandey, Director, Amity School of Engineering and Technology, Noida
11:30 - 12:00 HRS	Keynote Address	Mr. Vijay Kumar, CTO, ESRI
12:00 - 12:15 HRS	River Restoration, Revival and Rejuvenation	Sh. D P Mathuria, Chief Engineer, P&DO, CWC
12:15 - 12:45 HRS	Talk on "Sediment Management"	Prof. Rajiv Sinha, Professor, Department of Earth Science, IIT Kanpur
12:45 - 13:15 HRS	Talk on "Digital Twin for Urban – River interaction"	Prof. Anurag Ohri, Department of Civil Engg, IIT BHU
<b>LUNCH - BREAK</b>		
14:00 - 14:15 HRS	Broad Vision of NMCG and Opening Remarks	Sh. Nalin Srivastava, Deputy Director General, NMCG Sh. Rahul Dwivedi, Director - Project, NMCG
14:15 - 14:30 HRS	Riverathon as an opportunity for citizen to contribute towards River Restoration, Revival and Rejuvenation	Sh. Dheeraj Joshi, Director, NMCG
14:30 - 14:45 HRS	LiDAR Data	Director, Geodetic & Research Branch, Survey of India
14:45-15:15 HRS	Talk on "Climate and Environmental Monitoring	Prof Saumitra Mukherjee, Retd. Professor, JNU/Director, NEER
15:15 - 15:45 HRS	Talk on "Next-Gen Technology driven Flood Modelling"	Assoc. Prof. Manabendra Saharia, Department of Civil Engineering, IIT Delhi – Member
15:45 - 16:15 HRS	Talk on "Floodplain Mapping, zonation and forecasting"	Dr. Vaibhav Garg, Scientist F, Water Resource Department, Indian Institute of Remote Sensing
<b>26<sup>th</sup> September, 2025   Second Day</b>		
10:30 - 12:30 HRS	ArcGIS as a Solution Platform for Riverathon	ESRI
<b>LUNCH - BREAK</b>		
13:30 - 15:00 HRS	Demonstration of ArcGIS Capability as Solution Platform for Riverathon	ESRI
15:00 - 15:10 HRS	Closing Remarks	Sh. Peeyush Gupta, RTIS, NMCG
15:10 - 15:15 HRS	Riverathon - Way Forward	Prof. Madhuri Kumari, Professor, Department of Civil Engineering, Amity School of Engineering and Technology, Noida

# S P E A K E R S



Sh. Nalin Srivastava,  
Deputy Director General,  
NMCG



Sh. Rahul Dwivedi,  
Director - Project,  
NMCG



Sh. Dheeraj Joshi,  
Director,  
NMCG



Sh. Peeyush Gupta,  
RTIS,  
NMCG



Sh. D. P. Mathuria,  
Chief Engineer, P&DO,  
Central Water Commission



Sh. Neeraj Gurjar,  
Director-Geodetic & Research  
Branch, Survey of India



Dr. Vaibhav Garg,  
Scientist F,  
WRD, IIRS



Prof. Rajiv Sinha,  
Professor,  
IIT Kanpur



Prof. Anurag Ohri,  
Professor,  
IIT (BHU)



Prof. Manoj Kr. Pandey,  
Director,  
ASET, Noida



Prof. Saumitra Mukherjee,  
Retd. Professor,  
JNU



Dr. Manabendra Saharia,  
Associate Professor,  
IIT Delhi



Prof. Madhuri Kumari,  
Professor,  
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Mr. Vijay Kumar,  
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Ms. Prathvi Ghanshyambhai Bhatti,  
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Ms. Neha Kshirsagar,  
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Ms. Shivangee Paul,  
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Mr. Tejas Kapoor,  
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