



**Dr. M.G.R.**  
**EDUCATIONAL AND RESEARCH INSTITUTE**  
**(Deemed to be University)**  
Maduravoyal, Chennai - 600 095. Tamilnadu, India.  
(An ISO 9001-2015 Certified Institution)



**MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS**

Department of Civil Engineering

Event Title	FDP on Emerging role of AI in Civil Engineering		
Objective of Event	To understand the basic concepts of Artificial Intelligence, Machine Learning and Deep Learning. To explore application of AI in the various streams of Civil Engineering.		
Chief Guest /Speaker Details	JERRIN THOMAS PANACHAKKEL, Asst Prof, College of Engineering, Thiruvananthapuram		
Date	09/02/2026 to 14/02/2026	Time	10.30 AM to 12.30 PM
Venue	Civil Smart Room	No. of Participants	20

REPORT

TITLE

FDP on Emerging role of AI in Civil Engineering

CONTENT

The six day long FDP on “Emerging Role of AI in Civil Engineering” organized by Department of Civil Engineering in association with ADSERIN (Advanced Structural Engineering Research Institute) was conducted online from Feb 9-14, 2026. The sessions were handled by six eminent personalities from academia and industry. Around 104 faculty members from reputed engineering colleges across India participated in the FDP.

Day 1 Feb 9 Dr. Jerrin Thomas Panachakel, Asst. Prof., Dept. of Electronics and Communication, College of Engineering, Thiruvananthapuram, Kerala introduced the basics of AI through the topic on “Teaching Machines to Learn: AI Machine Learning and Real World Transportation Applications” which covered the assistance of AI in pedestrian crossing, solving traffic signal lag and traffic density at busy junctions.

Day 2 Feb 10 session on “Concrete goes smart: The AI revolution in Civil Engineering” handled by Dr. Usha Jagarallu, Vice Principal, Ravindra College for Women, Kurnool, Andhrapradesh gave the effective application of AI in mix design, in non-destructive testing, in advanced concrete research and in life cycle assessment of building materials.

The session delivered by Mr. Prabhu I, Scientist F, HP-ESPG, C-DAC Pune, on Day 3 Feb 11, covered the topic “GeoAI for disaster management: Applications around civil engineering domain” which highlighted the overall application of AI in tackling



# Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE (Deemed to be University)

Maduravoyal, Chennai - 600 095, Tamilnadu, India.

(An ISO 9001-2015 Certified Institution)



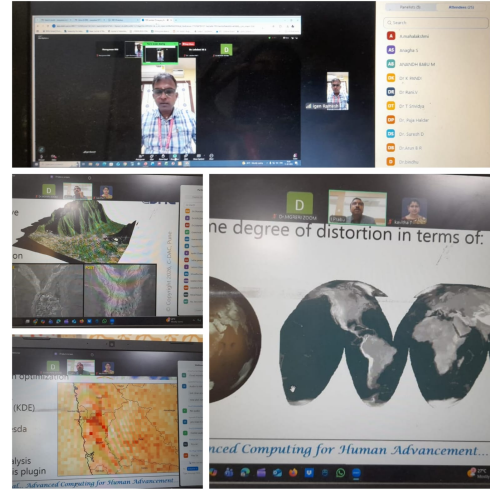
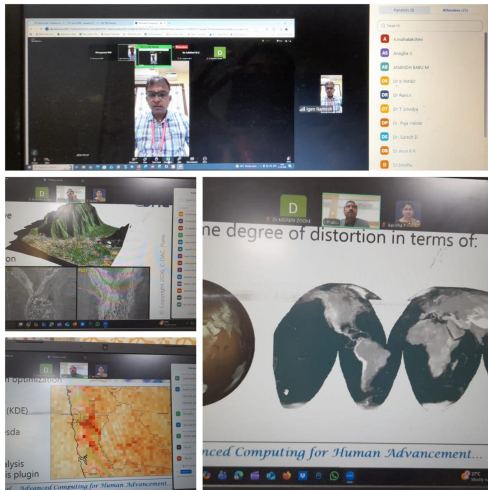
## MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS

problems associated with natural disasters. The session highlighted real examples of disaster that occurred in Mumbai and Kedarnath.

Day 4 Feb 12 Er. Sabu, Former Director, Kerala Public Works department shared his knowledge and experience in the effective application of AI in bridge design through the topic "Applications of AI in Structural Engineering".

On Day 5 Feb 13 Dr. T. Palanisamy, Asso. Prof. NIT Surathakal elaborated about Machine Learning Application in Civil Engineering with special emphasis to prediction of strength in RCC Joints.

And on Day 6 Feb 14 the AI application in construction safety management as effectively explored through case studies through Dr. Nikhil Bugalia, Asst. Prof. BTCM Division, IIT Madras.



### EVENT OUTCOME

The participants will acquire fundamental knowledge about the application of AI techniques within the realm of Civil Engineering. By exploring AI applications in areas such as Structural Engineering, Concrete Technology, Disaster Management, and Construction Project Management, they will be better equipped to apply these techniques in their specific fields. Encourages

### PHOTOS

Dr.Lekshmi Mr.S.Ganesh Pandi