

## Advancements and Challenges in Flexible Pavement Design: Theory to Practice

**Dr. Uma Maheswar Arepalli**

Friday, March 7, 2025 | 10:00 AM - 11:00 AM (IST)

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### ABOUT THE TALK :

Mechanistic-Empirical Pavement Design (MEPDG) has been introduced to overcome the limitations of the AASHTO1993 design method. Unlike the 1993 design approach, MEPDG was developed using the national database covering a variety of climate, material, and traffic conditions, and the corresponding field performance information in the United States. The talk will focus on introducing AASHTOWare Pavement Mechanistic-Empirical Design (PMED) and local calibration requirements, challenges and lessons learned in the implementation of PMED for small states like Maine, USA through a case study, and alternative pavement design advances such as AASHTO1993 layer coefficient update. The talk will emphasize more towards the perspectives of agency practitioners.

### ABOUT THE SPEAKER :

Dr. Uma Maheswar Arepalli is the Founding Director, Applied Research Professionals INC, Delaware, USA and Assistant Professor in the Department of Civil Engineering at SRM University, Andhra Pradesh. He is also associated with the University of Maine, USA, as a Faculty Affiliate in the Civil Engineering Department. Dr. Arepalli graduated with a bachelor's degree from Andhra University, Andhra Pradesh, received his master's degree from IIT (Banaras Hindu University) Varanasi, and a doctoral degree from Worcester Polytechnic Institute (WPI), USA. He worked as a postdoctoral associate in the Department of Civil Engineering, University of Minnesota Duluth, USA, and as a research engineer in the Bureau of Project Development at the Maine Department of Transportation (MaineDOT), USA. Dr. Arepalli has a well-rounded professional work experience in India and Abroad covering industry, research, and teaching, and he is a registered Professional Engineer in the state of Maine, USA. He is a part of many sponsored projects in the areas of pavement design and pavement maintenance in India as well as USA. Dr. Arepalli has many publications in reputed journals and conferences in India and Abroad.