



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON ONLINE WEBINAR

ON

“RECENT ADVANCES IN PAVEMENT ENGINEERING”

Event Type	Webinar
Date / Duration	10-01-2023
Resource Person	Dr. UMA MAHESWAR AREPALLI , Assistant Professor, Department of Civil Engineering, SRM University, AP.
Name of Coordinator	P. Mohana Gangaraju, Assistant Professor
Target Audience	III B.Tech and IV B.Tech students
Total no of Participants	89 (Internal -89)
Objective of the event	➤ To update students in the area of transportation engineering with the current sustainable industry practices and the latest cutting-edge research.
Outcome of event	<ul style="list-style-type: none"> ➤ Students will get updated with the latest trends in transportation engineering, especially pavement engineering. ➤ Students get familiar the latest technology that is being used in India, such as Falling Weight Deflectometer (FWD), Network Survey Vehicles (NSV), Full Depth reclamation (FDR), Cold and Warm Asphalt mixes, Mechanistic-Empirical (M-E) pavement design, etc. ➤ The lecture also provides insights into science vs. engineering and career advice – industry, higher education, and government.
Feedback / Suggestions	<ul style="list-style-type: none"> • Students gave positive feedback on the webinar and requested to conduct more webinars and workshops.

Photographs :



Dr. V. Ramakrishna, HOD addressing event

Skill Set Requirements – Modern Engineers

Geometric Design	Horizontal and Vertical Curves	MX ROAD Software
Traffic Engineering	Traffic studies, Traffic Management, Safety	Software - VISSIM or CUBES?
Pavement Engineering	Materials, Design, Construction, and Management	Image Analysis Applications
Transportation Planning	Urban Transportation Planning, Intelligent Transportation Systems (ITS)	Sustainable paving materials and techniques

*Railways, Airways, and Waterways

Presentation of Resource Person

Pavement Engineering

- Pavement Materials (Mix Design)
- Pavement Design (Structural Design)
- **Pavement Construction**
- Pavement Management (Maintenance and Rehabilitation)



Presentation of Resource Person



Falling Weight Deflectometer (FWD)

Presentation of Resource Person

Press Clippings: Nil

REPORT

A one day webinar on “Recent Advances in Pavement Engineering” is organized in Civil Engineering Department on 10-01-2023 with **Dr. Uma Maheswar Arepalli**, Assistant Professor, Department of Civil Engineering, SRM University, AP acting as Resource Person.

Dr Uma Maheswar dealt with fundamental aspects of pavement engineering such as alignments, materials, mixes and design approaches. He discussed the various methods of bitumen mixing such as hot mix asphalt, warm mix asphalt, coldmix asphalt, recycled asphalt, and porous asphalt. He stressed the importance of pot hole management where cold mix asphalt is more suitable. He deliberated on the material tests that are being carried out in pavement material characterization such as cracking – dynamic modulus, rutting – wheel rut tester, and moisture sensitivity – MiST. He highlighted with case studies the importance of bump integrator and network survey vehicles which are being widely adopted to monitor the unevenness of the pavement surface.

In the end, Dr Uma Maheswar appraised the various opportunities available in Transportation Engineering domain. There are a lot of opportunities in the Transportation engineering stream. The major categories are contractors, consultants, and government agencies. Skill set required to improve the opportunities are to learn about MX ROAD software, VISSIM software, Image analysis applications, Sustainable paving materials and techniques, and Sophisticated Technology Advances. The webinar is highly informative and interactive which was very well received by the target audience.