INSTRUCT®
Empowering India's Construction

Institute for Research, Development and Training of Construction Trades and Management

Presents its

2 Day Special Programme on

Road Pavements

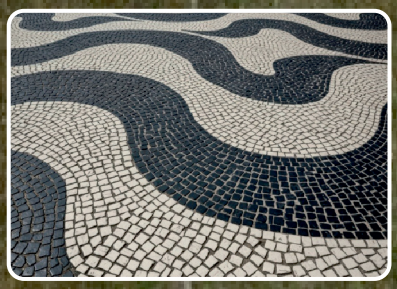
Design, Maintenance Case Study of Failures

7 - 8 May 2026
(Thursday & Friday)

9:00 – 18:00 Hrs IST

Kyriad
3rd Floor, Gold Hub Mall, Opp. KBN Hospital Main Road
Kalaburagi



Registration Link :

Institute for Research, Development and Training of Construction Trades and Management

1st Floor, UVCE Alumni Association Building, K R Circle, Bangalore – 560 001.
Phone : 080-22243257 / 22294291 / 29543257 **Email id :** instructindia@gmail.com
Mobile : 9141042097, 9901211182 **Website :** www.instructindia.org

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About the Special Programme:

Road pavement design and maintenance are fundamental components of transportation engineering, ensuring that road networks remain safe, durable, and efficient throughout their service life. Pavements are designed to withstand traffic loads and environmental stresses while providing a smooth riding surface. The design process considers factors such as traffic intensity, axle loads, subgrade strength, climatic conditions, drainage, and material properties. Based on these factors, engineers typically choose between flexible pavements (asphalt-based) and rigid pavements (cement concrete), each with distinct structural behaviors and performance characteristics.

However, even well-designed pavements can fail prematurely if proper construction practices and maintenance strategies are not followed. Pavement maintenance is therefore essential to preserve structural integrity and functionality. It includes routine activities such as crack sealing, pothole repair, surface dressing, and periodic rehabilitation to address deterioration caused by traffic loading, weathering, and aging.

Case Study of Pavement Failures A common example of pavement failure can be observed in urban and highway roads where improper drainage and poor subgrade preparation lead to rapid deterioration. In one such case, a flexible pavement designed for moderate traffic experienced severe rutting and pothole formation within a few years of construction. Investigation revealed several key issues:

Inadequate Drainage System: Water infiltration weakened the subgrade, reducing its load-bearing capacity.Poor Quality Materials: Substandard aggregates and bitumen led to reduced strength and durability. Insufficient Compaction: Improper compaction during construction resulted in voids, making the pavement more susceptible to deformation.Overloading: Traffic loads exceeded the design capacity, accelerating structural damage.

Similarly, rigid pavements can fail due to factors such as thermal stresses, improper joint design, and lack of load transfer mechanisms. A typical case involves the development of cracks and faulting in concrete slabs due to temperature variations and inadequate joint spacing

Objectives of the Special Programme

- To understand fundamental principles of pavement design Provide participants with a clear understanding of flexible and rigid pavement design concepts, materials, and load considerations.
- To explore modern design methodologies and standards Introduce relevant codes, guidelines, and analytical approaches used in pavement engineering.
- To study common types of pavement failures Identify and analyze failures such as rutting, cracking, potholes, and stripping, along with their root causes.
- To evaluate maintenance and rehabilitation techniques Discuss preventive maintenance, periodic maintenance, and advanced rehabilitation methods for extending pavement life.
- To analyze real-world case studies of pavement failures Provide practical insights through case studies highlighting design flaws, construction issues, material deficiencies, and environmental impacts.
- To emphasize quality control and construction practices Highlight the importance of proper construction techniques, supervision, and material testing in preventing failures.

TOPICS & SPEAKERS

Overview

Dr. G. Kavitha
Professor and Head of Institution at RASTA
Centre for Road Technology,
Bengaluru

Rigid Pavements
Design, Materials, Construction
Dos and Don't Faculty

Er. A. C. Shivakumar
Consultant, Design Academy Consulting
Civil Engineers,
Bengaluru

Geotechnical Investigation:

Er. V C Karthigeyon
Technical Manager,
Rews Geotechnics,
Bengaluru

Road Safety and Audit

Er. Udayakumar L
Managing Director, SUR Engineering Services
Certified Road Safety Engineer & Auditor
Bengaluru

Quality Assurance and
Quality Control

Dr. M Narayan
Rtd Engineer, KPWD
Dharwad

Flexible Pavements - Design,
Materials, Construction
Dos and Don't Faculty

Dr. Anajaneyappa
HoD, RV COllege of Engineering,
Bengaluru

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Who can be benefit :

1. Designers
2. Engineers from Government Departments
3. Consultants
4. Academia
5. Students
6. PMC
7. Construction Engineers
8. Contractors of Public Works Departments
9. Members of INSTRUCT, INSDAG, ACCE(I), ICI
10. Design Engineers from Central and State Government and Private Organisations
11. Manufacturers of Cement, Concrete, Precast Elements, Construction Chemicals, Paints, Green Building Materials, etc.

Registration Fee

(delegate fee includes delegate kit, lunch and hi-teas)

Delegates	Fee
Non - Members	**₹ 9,440/-**
INSTRUCT, ACCE(I) & ICI Members	**₹ 8,260/-**
Students of Engineering Colleges	**₹ 3,540/-**

* Inclusive of GST

Sponsorship Opportunities :-

INSTRUCT invites organisations servicing construction industry to sponsor the programme and take the marketing opportunity to reach out to interested group of engineers from construction industry.

Sponsoring organisations can enjoy the following privileges:

Privileges	Platinum Sponsor ₹ 2,00,000/-	Gold Sponsor ₹ 1,00,000/-	Silver Sponsor ₹ 70,000/-	Bronze Sponsor ₹ 50,000/-	Exhibition Stall Space (3mtrx3mtr) ₹ 30,000/-	Supporting Organisation ₹ 25,000/-
Demo Slot	30 mins	15 mins	-	-	-	-
Banner Display at Venue	✓	✓	✓	✓	✓	✓
Distribution of Marketing Materials	✓	✓	✓	✓	✓	✓
Logo on Power point slides, in the backdrop	✓	✓	✓	-	-	-
Complimentary Delegates	8	4	2	1	1	1

Opportunity to Display Banner at the Venue ₹ **10,000/-**

* Plus 18% GST for all the above mentioned Amount

Payment :

Sponsorship payments should be made through e-transfer (i.e. RTGS/NEFT etc.) or Account Payee DD or at par cheque drawn in favour of **"INSTRUCT, BANGALORE"** payable at Bengaluru.

:

Our bank details are given below

ELECTRONIC PAYMENT DETAILS

Name	:	INSTRUCT Bangalore
Bank Name	:	Union Bank of India
Branch Name	:	Nrupatunga Road Branch
Address	:	#14/3, Nrupatunga Road, Bangalore-560002
ACCOUNT No	:	520101235036516
IFSC CODE	:	UBIN0901750
PAN	:	AAATI3463K
GSTIN	:	29AAATI3463K1ZD

You can also pay through
Google pay/ PhonePe to 9141042097
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INSTRUCT

UPI ID : 71201601@ubin

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About INSTRUCT

INSTRUCT is a 'not-for-profit' institute in the service of construction industry for over thirty five years. It was originally conceived as Centre of Awareness in Construction and Engineering in 1989 by a few like minded, dedicated professionals, to provide high quality training to the construction industry fraternity both to upgrade skills of craftsmen and to update engineers on the latest technology.

During the past thirty five years, INSTRUCT has trained over 35,000 personnel through more than 1500 training programmes. It has earned recognition and awards for its service to the industry from premier bodies such as, Construction Industry Development Council, Rotary BSE,etc.,

The latest recognition earned for its service in educating construction industry is the prestigious 'Vishwakarma Award' by CIDC for the year 2023. Received 16th CIDC 'Vishwakarma Award' for creating social development and impact recently.

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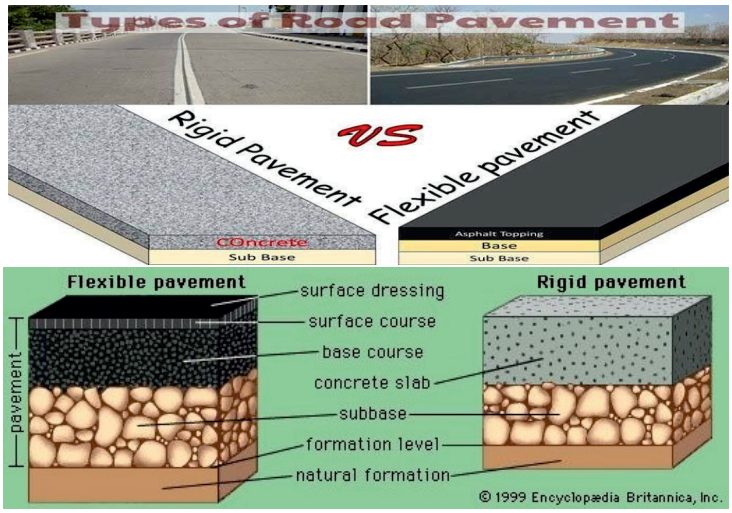

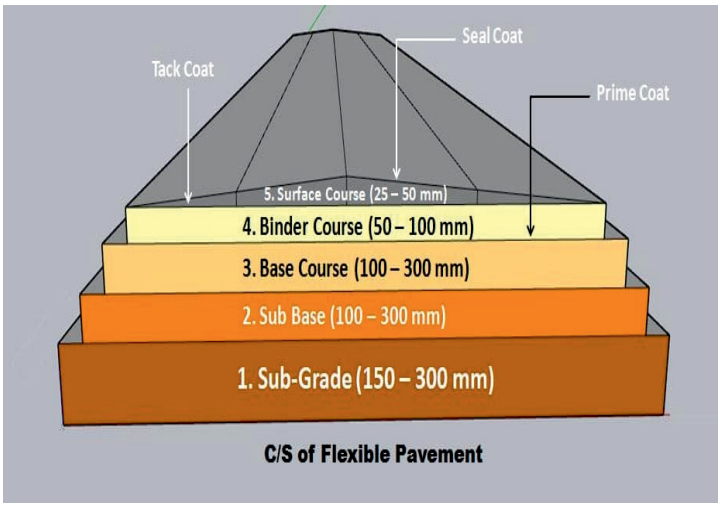

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