

Department of Paint Technology
Harcourt Butler Technical University, Kanpur

Title:

Expert Lecture Series on “Painting Systems for Railway Coaches and RDSO Specifications”

Date: 23rd February 2026

Time: 12:00 PM – 03:00 PM

Venue: PT Seminar Hall, HBTU East Campus, Nawabganj, Kanpur

Organized By: Department of Paint Technology, HBTU Kanpur

Resource Persons:

- **Rajesh Srivastava**
Director, M&C Division, Research Designs and Standards Organisation
- **Kishan K. Talreja**
Assistant Research Officer (M&C), Research Designs and Standards Organisation



EXPERT LECTURE SERIES ON
PAINTING SYSTEMS FOR RAILWAY COACHES
AND RDSO SPECIFICATIONS

Organized by:

DEPARTMENT OF PAINT TECHNOLOGY
SCHOOL OF CHEMICAL TECHNOLOGY
HARCOURT BUTLER TECHNICAL UNIVERSITY, KANPUR



Mr. Rajesh Srivastava
Director, M&C Division
RDSO Lucknow



Mr. Kishan K. Talreja
Asstt. Research Officer M&C
RDSO Lucknow



23 FEBRUARY 2026
MONDAY

12.00 PM to 03.00 PM
AFTERNOON



Venue: : PT Seminar Hall, HBTU East
Campus, Nawabganj, Kanpur- 208002

Participants:

- B.Tech & M.Tech Students (Paint Technology)
- Research Scholars
- Faculty Members

1. Introduction

The Department of Paint Technology, HBTU Kanpur, organized an Expert Lecture Series on *“Painting Systems for Railway Coaches and RDSO Specifications”* on 23rd February 2026. The session aimed to provide in-depth exposure to **industrial coating systems used in railway applications**, along with an understanding of regulatory standards and real-world challenges.

This lecture served as an important platform for connecting academic knowledge with **practical applications in railway coating technology**.



2. Objectives of the Event

- To introduce students to **railway coating systems and applications**
- To understand **RDSO specifications and compliance requirements**
- To explore **corrosion protection strategies in railway coaches**
- To highlight **industrial challenges in durability and surface engineering**
- To strengthen **academia–industry–RDSO collaboration**

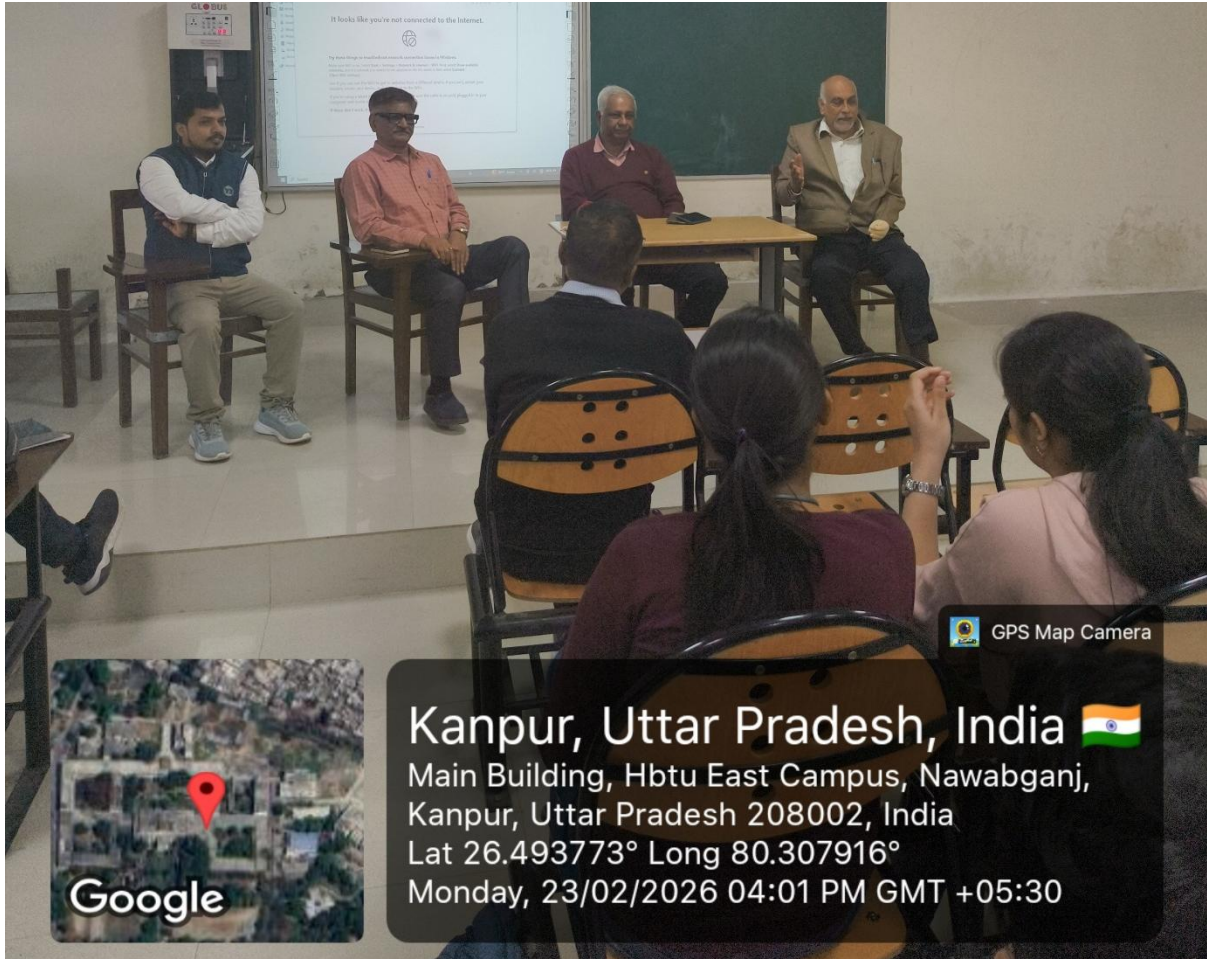
3. About the Resource Persons

The session was delivered by experienced professionals from Research Designs and Standards Organisation, the premier research and standardization body of Indian Railways.

- **Rajesh Srivastava** shared extensive insights into **policy, specifications, and industrial practices** in railway coatings.

- **Kishan K. Talreja** focused on **technical implementation, testing, and compliance aspects**.

Their status as alumni further strengthened the connection between industry and the department.



4. Key Topics Covered

4.1 Industrial Coating Systems for Railway Applications

- Types of coatings used in railway coaches
- Multi-layer coating systems for enhanced durability
- Surface preparation and application techniques

4.2 RDSO Specifications and Standards

- Overview of RDSO guidelines for coatings
- Testing procedures and certification requirements
- Importance of standardization in railway systems

4.3 Corrosion Protection and Durability

- Mechanisms of corrosion in railway environments
- Protective coating strategies
- Lifecycle performance and maintenance considerations



4.4 Practical Challenges in Railway Coatings

- Environmental and operational challenges
- Adhesion, weathering, and wear resistance
- Field-level issues and solutions

4.5 Academia–Industry–RDSO Linkages

- Opportunities for collaboration
- Industry expectations from graduates
- Scope for research and consultancy

5. Highlights of the Event

- Expert insights from **RDSO professionals**
- Strong interaction between students and speakers

- Real-life case studies and practical exposure
- Focus on **industry standards and compliance**
- Enhanced understanding of **railway coating systems**



6. Learning Outcomes

Participants were able to:

- Understand **coating systems used in railway coaches**
- Gain knowledge of **RDSO specifications and standards**
- Learn about **corrosion protection strategies**
- Develop awareness of **industrial challenges and solutions**
- Explore career opportunities in **railway and industrial coatings sector**

7. Impact of the Event

Academic Impact

- Improved understanding of applied coating technology
- Strengthened curriculum relevance

Industrial Relevance

- Exposure to real-world industrial standards
- Alignment with regulatory frameworks

Student Development

- Enhanced career awareness in railway sector
- Motivation for industry-oriented learning



8. Relevance to NAAC/NBA Criteria

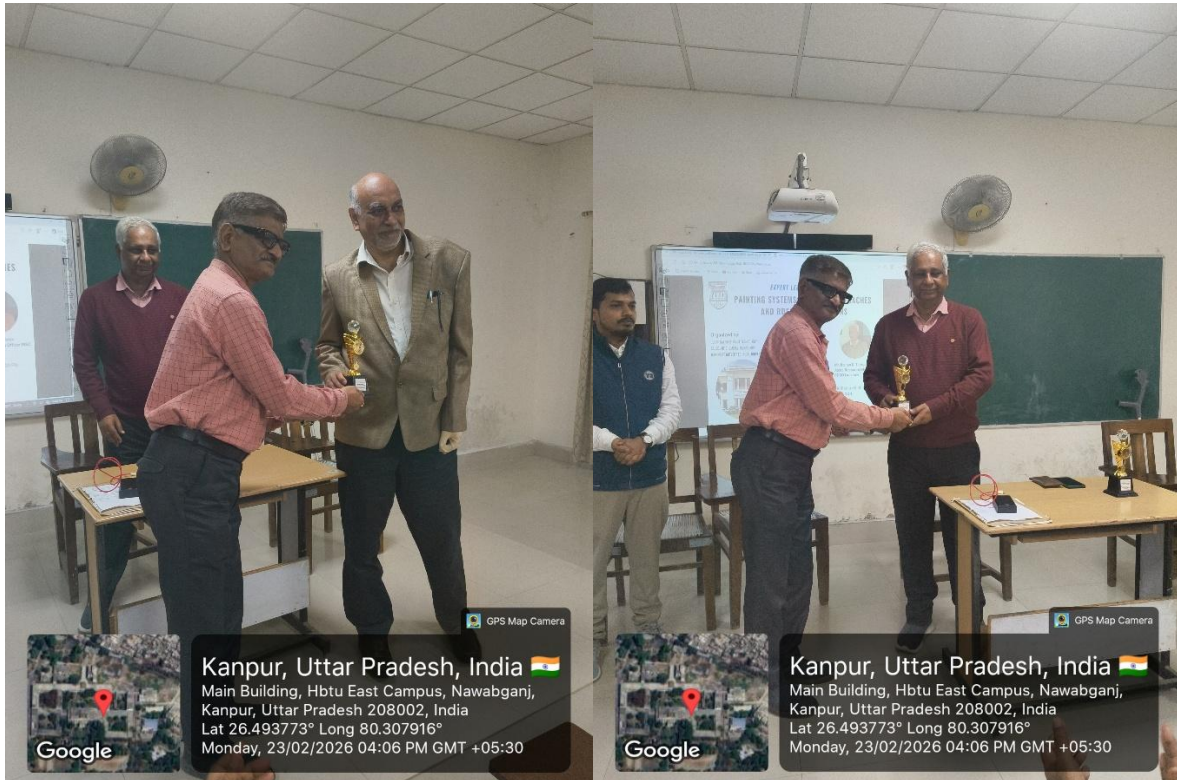
NBA Alignment:

- **Criterion 3:** Program Outcomes (Practical knowledge, problem-solving)
- **Criterion 5:** Faculty Contributions
- **Criterion 7:** Industry Interaction

NAAC Alignment:

- **Criterion 2:** Teaching-Learning Process
- **Criterion 3:** Research and Extension

- **Criterion 5: Student Support and Progression**
- **Criterion 7: Best Practices**



9. Conclusion

The Expert Lecture Series on railway coatings provided valuable insights into **industrial practices, regulatory standards, and practical challenges** in the field of surface coatings. The session successfully strengthened the linkage between academia and industry, while equipping students with knowledge relevant to **real-world engineering applications**.

Such initiatives play a crucial role in enhancing **technical competence, industry readiness, and professional development** among students.