

IIT Kharagpur, in association with

AMPP INDIA

offers a

Certificate Course on

"Surface Engineering for Corrosion Prevention"

19th - 21st January 2026

OBJECTIVE

This course is intended to deliver the fundamentals of corrosion-based degradation usually encountered by engineering components in power plants, oil and gas pipelines, aerospace, automotive, and marine sectors, along with the prevention of component-specific corrosion through different surface engineering techniques. A brief overview of various surface engineering techniques, process optimization, and their industrial applications will be discussed. Finally, the techniques used for corrosion testing and analyzing its mechanisms will also be covered.

TOPICS TO BE COVERED

- Fundamentals of Corrosion and High-Temperature Oxidation.
- Demonstration of Conventional & Advanced Surface Treatment Techniques.
- Surface Characterization Techniques and Laboratory Demonstration.
- Nanostructured and Functional Coatings
- Characterization and Testing Techniques
- Industrial Applications and Case Studies.

CLASS TIMINGS

9 : 00 HRS - 17 :00 HRS

COURSE VENUE : IIT KHARAGPUR

Registration Fees detail

INR 15,000 + GST per delegate

In addition, IIT Kharagpur is also organizing an International Conference on Frontiers in Surface Engineering and Additive Manufacturing from 21st January to 23rd January and hence, interested participants may also attend the conference as delegates with an additional registration fee of 50% waiver in different categories as applicable.

For more details, visit: www.fseam.in

WHO SHOULD ATTEND ?

This course is designed for students, researchers, and industry professionals from materials, metallurgy, mechanical, chemical, civil, and any other science background who wish to gain expertise in corrosion prevention through surface engineering. It is also valuable for industry practitioners seeking practical solutions to enhance material durability and performance. Discussion - Quiz session will also be conducted at the end of the course to assess the knowledge gain by the participant.

Participation certification will be issued after the course.

FOR DETAILS :

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