

**Online STTP on
Advances in Corrosion Engineering and
Electrochemical Characterization
Techniques**

From 02nd Jan. – 06th Jan., 2021

REGISTRATION FORM

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Designation:
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Qualification:
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Registration Amount:
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Signature of candidate.....

Registration should be done through online mode only through the link:
<https://tinyurl.com/y2f7xbd8>

Registration Fee payment details:

NEFT/RTGS should be made in favor of Director, National Institute of Technology Raipur, payable at Raipur (CG), SBI bank, GCET Raipur branch. Payment should be made to: **Account No.: 38027633250**
Name: **Director, NIT Raipur** IFSC: **SBIN0002852**

Please note that the registration is accepted in the online mode only.

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Director, NIT Raipur

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Dr. Manoj K. Chopkar

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Dr. Manwendra K. Tripathi

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**Online STTP on
Advances in Corrosion
Engineering and Electrochemical
Characterization Techniques**

02nd Jan. – 06th Jan., 2021



Organized by

**Department of Metallurgical and
Materials Engineering**



**National Institute of Technology –
Raipur
492 010 (Chhattisgarh)**

About the Institute

National Institute of Technology Raipur situated in the capital of Chhattisgarh has proven to be *avant-garde* in the field of science and technology over past few decades. The foundation of the Institute was laid by the president Honorable Dr. Rajendra Prasad on 14th September 1956. Later, the inauguration of the Institute building was done by the Prime Minister Honorable Pt. Jawahar Lal Nehru on 14th March 1963. The Institute started with two departments, namely Metallurgical and Mining Engineering. From 1st December 2005, the Institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km away from the Raipur railways station and 18 km from airport on the Great Eastern Road.

About Department

The Department of Metallurgical Engineering came into existence in the year 1956. It has recently renamed as the Department of Metallurgical and Materials Engineering. The doctoral program started in 2012 and graduate program is expected to commence in near future. The department provides an outstanding research environment and offers academic program leading to the award of B.Tech. and PhD degree.

Organizer

Department of Metallurgical and Materials Engineering, NIT Raipur (CG)

Objectives

This STTP intends to quickly introduce the essential fundamentals of the subject, followed by electrochemical characterization experimental demonstrations. The distinguished experts from the IITs, NITs and other institutes of repute will share their research experience on the applications of various electrochemical characterization techniques.

Topics to be covered

Anodic and Cathodic electrochemical reactions, Butler-Volmer equation, Activation and Concentration Polarization, Open Circuit Potential, Tafel's Extrapolation, Linear Polarization, Cyclic Voltammetry, Electrochemical Impedance Spectroscopy, Passivity, A systematic analysis of red rusting in galvanized steel components for non-structural applications, Grain boundary relaxation: A new approach for enhancing corrosion resistance of nanocrystalline materials, A case study on the high temperature corrosion, intergranular corrosion, pitting corrosion of stainless steel and several others.

Confirmed Speakers

- **Prof. Kallol Mondal**, IIT Kanpur
- **Dr. S. Roychowdhary**, BARC
- **Prof. A. P. Patil**, VNIT Nagpur
- **Prof. Mohan L. Verma**, SSTC, Bhilai
- **Dr. S. K. Tripathi**, Central University, Motihari

- **Dr. G. Srikant**, IIT Bhubhneswar
- **Dr. G. S. Mahobia**, IIT BHU, Varanasi
- **Dr. S. B. Arya**, NIT Suratkal
- **Dr. Neelima Mahto**, Yeungnam University, South Korea
- **Dr. Prashant Rout**, Central University Agartala
- **Dr. Rajiv Kumar**, PEC, Chandigarh
- **Mr. Manjunath Rao N.V.**, Principal Engineer, Sinsil International
- **Dr. M. K. Manoj**, NIT Raipur
- **Dr. M. K. Tripathi**, NIT Raipur

Target Participants

The course is designed for research scholars applying electrochemical characterization techniques as part of their research methodology. However, it will be equally useful for senior undergraduates, graduates, faculty members and participants from the research laboratories and the relevant industries.

Registration Fee Details (in INR)

Participants	Amount (in Rs) inclusive of 18% GST
UG Students	Rs 236/-
PG/PhD Students	Rs 354/-
Faculty Member and Persons from Industry and Research Laboratories	Rs 590/-

Please note that the registration is open for limited number of participants. The last date of registration is **24th Dec., 2020**. E-Certificates will be issued to the participants after attending the complete course.