

**One Day Research Facility
Training Programme under SERB-
DST Project Titled**

**“Hydrothermal synthesis of redox
nanomaterials and their
characterization”**

On 16th March 2023

REGISTRATION FORM

Name:

Designation:

Organization:

Qualification:

Correspondence Address:

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Tel. (O) (R)

(M)

E-Mail:

No registration fee.

Registration on first come first serve basis.

Fill the Google forms for registration:

<https://forms.gle/7KscXXYbDDENsCCR9>

Signature

Chief Patron

Dr. (Mrs.) A. B. Soni

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Dr. Lata Upadhyay,

Head, Dept of Biotechnology,

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Sponsored by

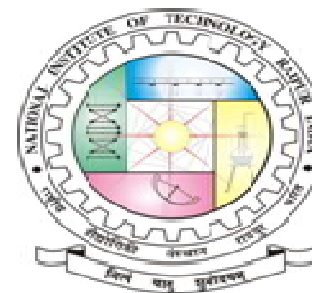


**Science and Engineering Research
Board**

**(A statutory body under DST,
Govt. of INDIA)**

**(Scientific Social Responsibility (SSR) policy of
SERB)**

On 16th March 2023



Organized by

Dr. Chinmaya Mahapatra

Principal Investigator

(SRG/2022/000348)

Assistant Professor

Department of Biotechnology

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-grade' in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. the institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. 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 from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department:

- The Department of Biotechnology came in existence since 2003 at NIT Raipur.
- International and National SCI research papers and patents are published by faculty members of the department regularly.
- Department offers academic programs like B.Tech and Ph.D.

Venue:

**Department of Biotechnology
NIT Raipur (CG) – 492 010, INDIA**

Objectives:

The key objective of this program is to discuss some critical concepts and fundamental understanding of the state-of-the-art research work. The program will offer learning of nanoscale properties and biosensor device design and development including nanomaterial synthesis to material characterizations, and etc. Their intended use in real life application shall be explained. This program will also cover the concepts from fundamentals to advanced level, giving thrust in nanotechnology. The topics will focus on basics, advances and applications to benefit people from academic and research communities associated with Science and Engineering. This one-day workshop would acquaint the researchers of Electrical and Optical Properties, Magnetic nanoparticles and their fabrication, Nanoparticle based Biosensors.

The workshop is also aimed to provide hands-on experience to the participants in handling Hands on training of nanoparticle characterization and Hands on training of hydrothermal synthesis of redox nanoparticles

The programme is also meant to support motivated researchers, PG and PhD level students, who are having a strong willingness to get excellence in their scientific and engineering research pursuits.

Topics to be covered:

1. **Electrical and Optical Properties of Nanomaterial**
2. **Magnetic nanoparticles and their fabrication**
3. **Nanoparticle based Biosensors**
4. **Hands on training of nanoparticle characterization**
5. **Hands on training of hydrothermal synthesis of redox nanoparticle**

Targeted Participants:

Eligibility Criteria to Attend: The training programme is open to researchers, JRF, SRF, PG and PhD research scholars. Selection shall be on first come first serve basis, with preference to students whose research interests align with the theme of the training programme and allied fields. Total number of seats is limited to maximum 20 researchers.

List of participants will be displayed on the institute website or informed through email.

The applicants have to submit the registration form in the attached format at the link:

<https://forms.gle/7KscXXYbDDENsCCR9>

There is no registration fees.

Registration is by first come first serve basis.