



### **About Karyashala**

'KARYASHALA' is an effort to improve research productivity of promising PG and PhD students from universities and colleges through high-end workshops on specific themes. The program is meant to support motivated PG and Ph.D. level students, who are having a strong willingness to get excellence in their scientific and engineering research pursuits and provide opportunities to acquire specialized research skills.

### **About the Institute**

The National Institute of Technology Tiruchirappalli (formerly known as Regional Engineering College, Trichy) is situated in the heart of Tamil Nadu on the banks of river Cauvery. Since its inception in 1964, it has established itself as a premier institute imparting quality technical education and engaged in research and development in different fields. The institute offers ten Undergraduate programmes and twenty-one Post Graduate programmes in Science, Engineering & Technology, besides M.S. (by Research) and Ph.D. in all the departments.

### **About SIF**

Sophisticated Instrumentation Facility (SIF) at NIT Trichy has been actively functioning since 2021. SIF cater to the needs of researchers, scientists, students, startups, and MSMEs in the domain of advanced testing/characterization in various science & engineering disciplines. SIF has also been actively facilitating different capacity building program to train skilled manpower in handling advanced research techniques through short-term courses/workshops.

### **About the Workshop**

The workshop, 'Advanced Characterization Techniques for Nanomaterial Research', promises an enriching blend of technical lectures, hands-on sessions, and tool demonstrations tailored for budding researchers in nanomaterial studies. Participants can expect to explore a wide array of essential tools covering investigations into nanoparticle size and structure, as well as examinations of light and magnetic properties, thermal behavior, hydrophilicity and hydrophobicity, surface area analysis, and porosity. This comprehensive training aims to equip participants with the skills necessary for employing a complementary suite of tools in effectively mapping the properties of nanoparticles.

### **Who can attend**

Applications are invited from PG students and Research Scholars from nationwide institutions in India. Preferences will be given to those who are working in the area of applications of nanomaterials.

## Registration Details

**The course is completely free of cost for all shortlisted participants. The workshop is sponsored by SERB.**

- Traveling expenditure upto 3rd AC railway journey fare will be reimbursed to all selected participants upon submission of valid train tickets by the shortest route to and from Trichy.
- Accommodation will be provided free of cost to all selected candidates by NIT Trichy during the course on a sharing basis subject to availability.
- The number of participants is limited to 25 candidates only. Interested participants can register at the earliest through the Google form. Biodata form (attached below) duly signed by Recommending Authority/Head of the Department/ Institute to be uploaded in the google form. <https://forms.gle/66VCN5BwkVCMCGxw8>
- Shortlisted participants will be informed by email/phone. A valid E-mail ID and a mobile number should be provided during registration. Participants will have to acknowledge and accept the offer for participating in the workshop through a return email, failing which the waitlisted candidates may be called for the workshop.

## Important Dates

**Scan to Register**



**Last date for registration is 12/03/2024 (6.00 pm)**

**The selected participants will be intimated by 13/03/2024**

<b>Chief Patron</b>	Dr. G. Aghila, Director, NIT Trichy
<b>Patron</b>	Dr. V. Sankaranarayanan, Dean R&C, NIT Trichy
<b>Co-ordinators</b>	Dr. S. Suresh, Professor, NIT Trichy Dr. C. Roobala, Scientific Officer, NIT Trichy
<b>Resource Persons</b>	Dr. Ranjith Ramadurai, Professor, IIT Hyderabad Dr. M. Premalatha, Professor, NIT Trichy Dr. Thamaraiselvi, Professor, BDU Trichy Dr. Ayyappan Satya, Senior Assistant Professor, SASTRA University Dr. Nanda Gopala Krishna, Scientist, IGCAR Dr. Shibu Thomas, SAIF STIC, Cochin India Dr. Thipperudraswamy, Scientist, CSIR CECRI Er. V. Prabhu, Technical Officer, CSIR CECRI Dr. Devendiran Mani, Application Specialist, Perkin Elmer Dr. Dipankar Das, Application Specialist, Anton Paar Dr. Mangesh Mahajan, Application Specialist, Malvern Panalytical Er. G. Sivakumar, Product Specialist, Inkarp
<b>Techniques Covered</b>	XRD, FESEM, XPS, PPMS, DSC, TGA, UV-Vis, FTIR, Electrochemical workstation, Particle sizer, Contact angle meter, Rheometer, Toxicity studies

**Contact** for or any questions or clarifications, please reach out to the SIF Team: [sif@nitt.edu](mailto:sif@nitt.edu) or 9489394853

## Bio Data

1. Name of the Participant (in capital letters)					
2. Designation		( ) Student	( ) Research Scholar	Other:	
3. Department					
4. Institute					
5. Institute Address					
6. Date of birth				7. Gender: Male / Female	
8. Mobile No (preferably whatsapp)					
9. Email Id					
10. Residential Address					
11. Alternate Contact No: (Parents/HoD)					
12. Pursuing Degree					
<b>13. Educational Qualification (From Graduation)</b>					
Sl. No	Degree / Examination	Subject	Institute	Year of Passing	Percentage of Marks
14. Research area, Achievements & Experience:					
<b>15. Paper Published/Patents</b>					
Sl.No	Year	Title	SCI indexed Y/N	Journal/Publisher	

16. Earlier Training Attended				
Sl. No	Year	Name of the Training Programme	Organizing Institute	Duration

17. Briefly explain how this workshop will be of use to you?

All the details given above by me are true to the best of my knowledge.

Date: \_\_\_\_\_ Signature of the Applicant: \_\_\_\_\_

## Certificate from the Institute

This is to certify that:

1. Mr. / Ms. / Mrs. \_\_\_\_\_, pursuing \_\_\_\_\_ is a bonafide student of our University / Institute / College and will assume full responsibility for actively participating in the High-End Workshop titled “Advanced Characterization Techniques for Nanomaterial Research” sponsored by SERB-DST under the Accelerate Vigyan Scheme, scheduled during 18-24, March 2024.

2. The University/ Institute/ College also endorses the conduct of the applicant to be of highest order who bears a good moral character.

3. The Academic and Research details given by the applicant are true as per the record.

4. The Applicant, if selected for participation, shall be duly permitted to physically attend the workshop at National Institute of Technology, Tiruchirappalli.

Institute Name:

Date:

Signature of Head of the Institute with Seal: