

### **A Brief about Dr. C. Roobala**



Dr. C. Roobala is a Scientific Officer at the Sophisticated Instrumentation Facility (SIF), National Institute of Technology (NIT), Tiruchirappalli, where she has been serving since January 2020. She holds a Ph.D. in Physics from the Indian Institute of Science (IISc), Bangalore, and her academic background includes an M.Sc. in Physics from Pondicherry University and a B.Sc. in Physics from Lady Doak College, Madurai.

At NIT Trichy, Dr. Roobala plays a pivotal role in SIF testing and consultancy services. She has streamlined workflows across 15 advanced instruments, supporting both academic and industrial stakeholders. Her responsibilities span the validation of test results, coordination of calibration, maintenance and service activities, user engagement, and end-to-end liaison with equipment manufacturers and service providers

She serves as the primary point of contact for I-STEM, representing the Institute at the national level. Over 300 instruments have been listed under her coordination on the I-STEM portal. Dr. Roobala actively coordinates and contributes to major institute-level proposals such as DST SATHI and DST SUPREME, and has conducted several advanced 7-day national workshops funded by DST STUTI, SERB Karyashala, and MSME ESDP schemes.

She is also a contributing member of various committees including the Intellectual Property Rights Cell (IPR Cell), Internal Complaints Committee (ICC) and the Non-Teaching Recruitment Cell.

Her research interests include phase change materials, material characterization, biomembranes, and tunable superhydrophobic surfaces. She has published in reputed international journals such as *Soft Matter*, *Langmuir*, and *Journal of Physics D: Applied Physics*.

#### **Dr. C. Roobala**

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