



SATHYABAMA

Institute of Science and Technology
(Deemed to be University)



CENTRE FOR WASTE MANAGEMENT
CENTRE OF EXCELLENCE FOR ENERGY RESEARCH (BIO - ENERGY DIVISION)
ORGANIZES

ONE-DAY TRAINING CUM WORKSHOP

ON

**“SPECTRAL CHARACTERIZATION TECHNIQUES FOR SCIENCE & ENGINEERING APPLICATIONS :
EXPLORING ATR FT-IR AND UV-VISIBLE SPECTROSCOPY”**

DATE: November 21 , 2025

TIME: 9 AM TO 3 PM

VENUE : CENTRE FOR WASTE MANAGEMENT, INTERNATIONAL RESEARCH CENTRE

About Centre for Waste Management

Centre for Waste Management and Centre of Excellence for Energy Research has a vision innovate new ideas and technologies towards achieving the cleaner, greener and sustainable environment. The Centre since its inception has been involved in research leading to innovative products, developing patent liable novel ideas in Waste Management, publishing the experimental outcomes in indexed /peer reviewed journals, training graduate students, offering consultancy services and involves in several outreach activities in transferring the research findings for societal benefits.

Chief Patrons

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Dr. T. Sasipraba, Director (Innovation).

Organizing Secretary

Dr. Dawn SS, Professor (Research) & Head , CWM.

Convener

Ms. Siva Shankari. S.V , Scientific Assistant, CWM.
Ms. Bhuvaneshwari . A, Scientific Assistant, CWM

Co-Conveners

Dr. P. Priyadharsini, Assistant Professor (Research)
Dr.J Arun, Assistant Professor (Research)
Dr.N Nirmala, Assistant Professor (Research)
Dr. A. Santhosh, Assistant Professor (Research)

Contact Information :

Ms. Siva Shankari .S.V,

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**Centre for Waste Management-IRC,
Sathyabama Institute of Science and Technology**



Highlights

- Introduce the theoretical principles and instrumental configuration of ATR-FTIR and UV-Visible spectroscopy
- Demonstrate advanced sample preparation protocols for accurate spectral acquisition
- Train participants in quantitative and qualitative spectral data interpretation.
- Illustrate case studies highlighting material characterization and molecular interaction analysis
- Enable researchers to perform spectral fitting, baseline correction, and data correlation using Origin 8.0

Takeaways

- Comprehensive understanding of ATR-FTIR and UV-Visible spectroscopy for material and molecular characterization.
- Hands-on proficiency in spectral data analysis, interpretation, and visualization using Origin 8.0.

To Register : [Click Here](#)

Registration fee for UG students: Rs. 750

PG, Research Scholars, Faculty: Rs. 1500

Account Details:

Account Name: Director Innovation

Sathyabama Institute of Science and Technology,

Account Number: 891734627

IFSC CODE: IDIB000S201

Website: <https://www.centreforwastemanagement.com/>
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