



Institute of Science and Technology Deemed to be University





Centre for Waste Management





Centre of Excellence for Energy Research

One day Training on

# **Biodiesel Production and Characterization as per ASTM Standards**

## for Industry Experts and Entrepreneurs

Centre for Waste Management, Centre of Excellence for Energy Research is organizing a One Day Training on Pilot Scale Biodiesel Production and Characterization as per ASTM standards. The scientific team has expertise in Biodiesel production from various sources including Waste cooking oil, Algal oil, Beef tallow, Goat fat, Rice bran oil and many other edible and non-edible oils. Register for the training to explore more !!

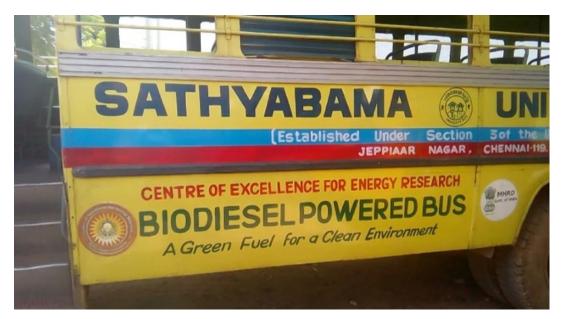
### <u>Training Highlights</u>

Biofuels-Introductory concepts Production & Performance Evaluation Lab scale Biodiesel Production Acid number , Moisture content , Density, Viscosity, Corrosion measurements Flash and Fire point measurements Biodiesel Pilot plant operation Biodiesel Washing and Drying techniques Biodiesel & Blends Calorific value measurements Cloud and Pour point measurements

#### Patrons

Dr. Mariazeena Johnson, Chancellor Dr. Marie Johnson, President Mr. J. Arul Selvan, Vice President Mrs. Maria Bernadette Tamilarasi, Vice President Ms. Mariya Catherina Jayapriya, Vice President Dr. T. Sasipraba, Vice Chancellor

# Date:20/01/2024





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### Conveners

Dr. Dawn S S, Professor (Research), CWM Mr. Santhosh A, Project Coordinator, STI-Hub, CWM

### **Co-Conveners**

Dr. J. Arun, Assistant Professor (Research), CWM Dr. Nirmala N, Assistant Professor (Research), CWM Dr. Sivasakthi M, Assistant Professor (Research), CWM Dr.R.Sathish Kumar, Associate Professor (Research), CWM Dr. Priyadharsini P, Scientific Assistant, CWM Organizing Team

Mr. Sanjay Kumar S, Project Assistant STI-Hub, CWM Ms.Bhuvaneswari A, Project Assistant, STI-Hub, CWM Mr. Jayakanth J, Project Assistant, STI-Hub, CWM Ms.S.V. Sivasankari, Project Associate , CWM Ms.J.Merlin, Research Scholar, CWM





Registration fee Rs.10,000/- for Industry

# SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY [DEEMED UNIVERSITY] Centre for Waste Management Centre of Excellence of Energy Research One day training on Pilot Scale biodiesel production and Characterization as per ASTM Standards

## Programme schedule

Date: 20/01/2024

Time	Experiment details
9.00 am to 9.30 am	Registration
9.30 – 10.50 am	Pilot scale biodiesel production FFA, Density, Viscosity,
	Moisture content test analysis, Cloud and Pour point,
	Copper strip corrosion
High tea 10.15 am – 11.00 am	
11.00 am – 11.30 am	Cost benefit analysis Economics and Licensing
11.30 am-12.30 pm	Pilot scale biodiesel production
12.30 pm – 1.00 pm	Calorific value Biodiesel analysis, Flash and Fire point
Lunch time1.00 pm – 2.00 pm	
2.00 pm – 2.30 pm	Biodiesel washing and drying process
2.30 pm – 3.00 pm	Evaluation of oil sources for Biodiesel Production
	Discussion Participants' Feedback