

Sathyabama Institute of Science and Technology
Centre for Waste Management and Centre of Excellence for Energy Research
in Association with
WasmanPro Environmental solutions and Department of Chemical Engineering
Organize

Six days Intensive training on **Resourceful Waste Conversion Technologies “ReConverT-2022” Series - I**

07-02-2022 to 12-02-2022

Program schedule

Day-I	9.30-10.15am	10.15-10.30am	10.30-11.30am	11.30-12.30pm	12.30-1.00pm	1.00-1.45pm	1.45-2.30pm	2.30-3.00pm
	Inauguration	Quality analysis of Raw material and Biodiesel Production	Biodiesel Characterization	Closed cup tester & corrosion test	Drying, Cloud & pour point observation	Lunch	Oral Presentation	Report writing & Feedback
Day-II	9.30-10.30 am	10.30-11.30 am	11.30-1.00 pm	1.00-1.45pm	1.45-2.30 pm	2.30- 3.00 pm		
	50L BD pilot plant Demonstration	Data Interpretation	Water analysis assessment and treatment TSS, TDS, pH and Turbidity	Lunch	Expert Talk Dr. K. Karthikeyan WasmanPro Environmental Solution	Wastewater Characteristic inference and interpretation	Report writing & Feedback	
Day-III	9.30-10.15 am	10.15-11.15 am	11.15-12.30 am	12.30-1.00pm	1.00-1.45pm	1.45-2.30 pm	2.30-3.00 pm	
	Standard operating Instructions for Handling GC- TCD/FID	Expert Talk Dr. Deepak Kumar Ohja IIT -Kharagpur	Hands on training for handling GC	Compositional analysis for Cetane number & Molecular Weight calculation	Lunch	Report writing & Feedback		
Day-IV	9:30 - 10:15 am	10:15 - 11: 30 am	11:30 - 12: 00 am	12:00 – 12:45 pm	12.45-1.30pm	1:30 - 2: 15 pm	2:15 - 3 pm	
	Media preparation and inoculation of algae	Talk on algal oil extraction for biodiesel production	Microscopical observation of algal lipid globules	Pre-treatment of algae cells for lipid extraction	Lunch	Discussion of transesterification process	Report writing and feedback	
Day-V	9:30 – 10:30 am	10:30 - 11:30 am	11: 30 - 1 pm	1.00-1.45pm	1:45 - 2:30 pm	2:30 - 3 pm		
	Biomass types and properties required for bio-oil production	Introduction to Hydrothermal liquefaction	Bio-oil properties and need for upgrading	Lunch	Highlights and outcomes of the program	Report and feedback		
Day- VI	9:30 – 12:30 pm			12:30 pm – 1: 30 pm		1:30 - 3 pm		
	Research Insight in Waste Management – A Case Studies				Lunch		Valedictory	