

**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 Mechanical Engineering**  
Organize

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

**14-02-2022 to 19-02-2022**

**Program schedule**

<b>Day-I</b>	<b>9.30-10.15am</b>	<b>10.15-10.30am</b>	<b>10.30-11.30am</b>	<b>11.30-12.30pm</b>	<b>12.30-1.00pm</b>	<b>1.00-1.45pm</b>	<b>1.45-2.30pm</b>	<b>2.30-3.00pm</b>
	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
<b>Day-II</b>	<b>9.30-10.30 am</b>	<b>10.30-11.30 am</b>	<b>11.30-1.00 pm</b>	<b>1.00-1.45pm</b>	<b>1.45-2.30 pm</b>	<b>2.30- 3.00 pm</b>		
	50L BD pilot plant Demonstration	Data Interpretation	Water analysis assessment and treatment TSS, TDS, pH and Turbidity	Lunch	Expert Talk <b>Dr. K. Karthikeyan</b> WasmanPro Environmental Solution	Wastewater Characteristic inference and interpretation	Report writing & Feedback	
<b>Day-III</b>	<b>9.30-10.15 am</b>	<b>10.15-11.15 am</b>	<b>11.15-12.30 am</b>	<b>12.30-1.00pm</b>	<b>1.00-1.45pm</b>	<b>1.45-2.30 pm</b>	<b>2.30-3.00 pm</b>	
	Standard operating Instructions for Handling GC- TCD/FID	Expert Talk <b>Dr. Deepak Kumar Ohja</b> IIT -Kharagpur	Hands on training for handling GC	Compositional analysis for Cetane number & Molecular Weight calculation	Lunch	Report writing & Feedback		
<b>Day-IV</b>	<b>9:30 - 10:15 am</b>	<b>10:15 - 11: 30 am</b>	<b>11:30 - 12: 00 am</b>	<b>12:00 – 12:45 pm</b>	<b>12.45-1.30pm</b>	<b>1:30 - 2: 15 pm</b>	<b>2:15 - 3 pm</b>	
	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	
<b>Day-V</b>	<b>9:30 – 10:30 am</b>	<b>10:30 - 11:30 am</b>	<b>11: 30 - 1 pm</b>	<b>1.00-1.45pm</b>	<b>1:45 - 2:30 pm</b>	<b>2:30 - 3 pm</b>		
	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		
<b>Day- VI</b>	<b>9:30 – 12:30 pm</b>			<b>12:30 pm – 1: 30 pm</b>		<b>1:30 - 3 pm</b>		
	Research Insight in Waste Management – A Case Studies				Lunch		Valedictory	