ORGANIZING COMMITTEE

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Conveners

Dr. J. Ranjitha, Associate Professor, CO₂ RGTC

Dr. S. Vijayalakshmi, Associate Professor, CO₂ RGTC **Registration link** https://events.vit.ac.in/

Last date for Registration 30th May 2025

Course Fee Course Fee: Rs.250/- (Inclusive of GST) Number of participants: 30

Schedule of Instructions The VAC is conducted in Two sessions from 10 am to 5 pm during 9-13th, June 2025.

Venue: MS TEAMS (Online only)

Contact Us: Dr. J Ranjitha Dr. S Vijayalakshmi CO₂ RGTC, VIT, Vellore - 632 014 Mobile. 9952223180, 9791346604

E-mail: biofuelprocesseng@gmail.com







Value Added Course on

Biofuel Process Engineering (VAC-2312)

9 – 13th, June 2025

CO₂ Research and Green Technologies Centre

Vellore Institute of Technology, Vellore-632014

Vellore Institute of Technology

Vellore Institute of Technology (VIT) has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, intertwined with extensive application- oriented research. VIT was established with the aim of providing quality higher education at par with institutions of international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education in all fields of science and technology. VIT was established by the well-known educationalist and former parliamentarian, honourable Dr. G. Viswanathan, the Founder and Chancellor, a visionary who transformed VIT into a Centre of excellence in higher technical education. In Engineering and Technology, VIT stands 212th best in the World and the 9th best in India (as QS World University Ranking 2023). Also based on the same survey, eight subjects of VIT are within the top 500 in the world. It is ranked the 8th best university and 11th best research institution and the 11th best engineering institution in India (NIRF ranking, Govt. of India 2022). It is ranked within the top 200 universities in Asia (QS – Asia University rankings 2022) and has got A⁺⁺ in the 4th cycle of NAAC accreditation.

CO₂ Research and Green Technologies Centre

About The CO_2 Research and Green Technologies Centre. The CO_2 Research and Green Technologies Centre (CO_2 RGTC) focuses on cutting-edge research on energy and environmental related challenges leading to the development of sustainable technologies. It is a unique center that carries out research exclusively on various aspects of CO_2 related research like CO_2 sequestration, conversion of CO_2 into useful fuels, development of transcritical CO_2 refrigerators and supercritical CO_2 based extraction technology. CO_2 RGTC also focuses on the development of various sustainable technologies for the effective use of solar, wind, and bioenergy. Advanced research is also carried out to develop materials for energy storage, electrochemical systems for the production of value-added products, fuel cells, and hydrogen energy.

About the Course

A biofuel engineer specializes in the development, production, and optimization of biofuels. Biofuels are renewable fuels derived from organic materials, such as crops, agricultural residues, algae, and waste materials. These engineers apply their expertise in chemical engineering, biotechnology, and energy systems to design and improve processes for converting biomass into biofuels. The role of a biofuel engineer involves several key responsibilities. They work on the design and operation of biofuel production facilities, ensuring efficient and cost-effective processes for biomass conversion. They conduct research and development to explore new feedstock options and improve conversion technologies. Biofuel engineers also focus on process optimization, seeking ways to increase yield, reduce energy consumption, and minimize environmental impact. Additionally, they collaborate with scientists, agronomists, and policymakers to address sustainability aspects, such as land use, greenhouse gas emissions, and the overall economic viability of biofuel production.

Course Outcomes

- Students will be able to understand the biofuel production technology.
- 2. Students will be able to understand the economic viability of biofuel production.

Who Can Attend?

The course is open to all under-graduates, postgraduates, research scholars.

