

VALUE ADDED COURSE ON

Intelligent Computing Approaches to Decarbonization and Sustainability

Feb 2nd to Feb 24th

Course Outcomes:

1. Apply intelligent computing techniques such as AI, machine learning, and data analytics to analyze carbon emissions and support decarbonization strategies across energy, industry, and urban systems.
2. Evaluate sustainable development challenges using computational models and intelligent decision-support systems to propose effective, data-driven sustainability solutions.
3. Design and assess AI-enabled solutions that optimize resource efficiency, reduce environmental impact, and contribute to achieving sustainability and net-zero goals.

Course Contents:

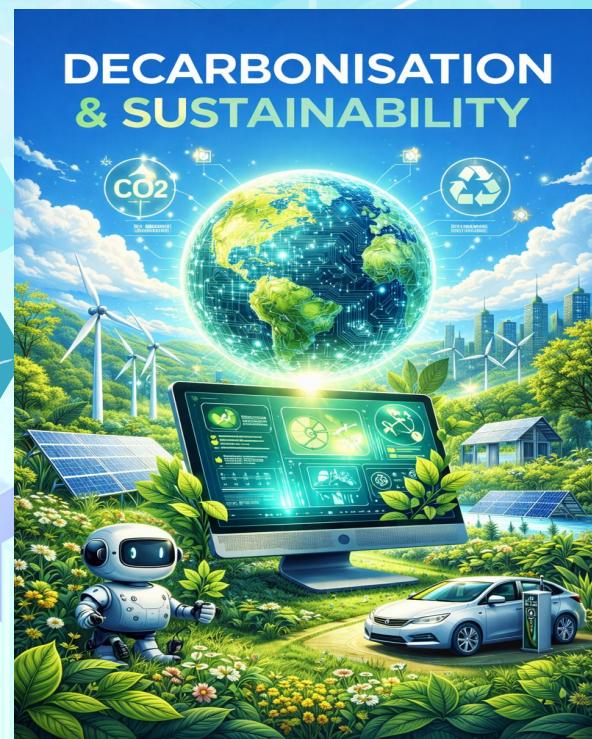
1. Decarbonization Strategies Overview
2. Bioenergy Sustainable System
3. Cognitive Computing Bioenergy
4. Machine Learning Optimization
5. Bioenergy Conversion Technologies
6. Biofuel Types Comparison
7. CO₂ Reduction Assessment
8. Bioenergy Case Studies
9. Experimental Statistical Techniques
10. Bioenergy Economics Innovation

Coordinators:

Dr. K Nanthagopal

Dr. J Ranjitha

Dr. S Nithya



**School of Mechanical Engineering &
CO₂ Research & Green Technologies Centre**

Vellore Institute of Technology, Vellore - 632014, India

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Date	Day	Time	Mode
Feb 02, 2026	Monday	06:00 - 07:30 PM	Online
Feb 03, 2026	Tuesday	06:00 - 07:30 PM	Online
Feb 04, 2026	Wednesday	06:00 - 07:30 PM	Online
Feb 05, 2026	Thursday	06:00 - 07:30 PM	Online
Feb 06, 2026	Friday	06:00 - 07:30 PM	Online
Feb 07, 2026	Saturday	06:00 - 07:30 PM	Online
Feb 09, 2026	Monday	06:00 - 07:30 PM	Online
Feb 10, 2026	Tuesday	06:00 - 07:30 PM	Online
Feb 11, 2026	Wednesday	06:00 - 07:30 PM	Online
Feb 12, 2026	Thursday	06:00 - 07:30 PM	Online
Feb 13, 2026	Friday	06:00 - 07:30 PM	Online
Feb 14, 2026	Saturday	06:00 - 07:30 PM	Online
Feb 16, 2026	Monday	06:00 - 07:30 PM	Online
Feb 17, 2026	Tuesday	06:00 - 07:30 PM	Online
Feb 18, 2026	Wednesday	06:00 - 07:30 PM	Online
Feb 19, 2026	Thursday	06:00 - 07:30 PM	Online
Feb 20, 2026	Friday	06:00 - 07:30 PM	Online
Feb 21, 2026	Saturday	06:00 - 07:30 PM	Online
Feb 23, 2026	Monday	06:00 - 07:30 PM	Online
Feb 24, 2026	Tuesday	06:00 - 07:30 PM	Online

Registration Fee:

Students/Research Scholars: INR 150/-

Including 18% GST

Registration Link:

<https://events.vit.ac.in/>

Contact:

Dr. K. Nanthagopal | knanthagopal@vit.ac.in | 9943928066

Dr. J. Ranjitha | ranjitha.j@vit.ac.in | 9952223180

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