

BIOMASS PROCESSING TECHNOLOGIES

The Department of Mechanical Engineering, Harcourt Butler Technical University (HBTU), Kanpur, Uttar Pradesh, successfully organized an expert lecture on “*Biomass Processing Technologies*” on **22nd March 2025 at 2:30 PM onwards** in online mode. The session was delivered by the distinguished faculty member **Prof. Arkom Palamanit**, Prince of Songkla University, Thailand. The lecture was attended by research scholars, faculty members, and students, who showed keen interest in the emerging technologies related to biomass utilization and sustainable energy solutions.

The event commenced with greetings from the Department of Mechanical Engineering, HBTU, Kanpur, and a warm welcome to the eminent speaker. Prof. Palamanit was introduced as an expert in the field of biomass processing and renewable energy technologies, with significant contributions to research and development in sustainable bioenergy systems.

During the lecture, Prof. Palamanit provided an in-depth overview of various **biomass processing technologies**, including thermochemical and biochemical conversion routes such as pyrolysis, gasification, combustion, and fermentation. He elaborated on the importance of biomass as a renewable and eco-friendly energy resource and highlighted its potential in reducing dependency on fossil fuels and mitigating environmental pollution. The lecture also covered recent advancements in biomass pretreatment, conversion efficiency enhancement, and the integration of biomass technologies with modern industrial processes.

Special emphasis was laid on the practical challenges associated with biomass processing, such as feedstock variability, moisture content, energy efficiency, and economic feasibility. Prof. Palamanit shared real-world case studies and research outcomes from Thailand and other regions, which helped participants understand the global perspective and applicability of biomass technologies in different socio-economic conditions.

The session was highly interactive, followed by a question-and-answer segment where participants discussed topics related to research opportunities, experimental methodologies, and future prospects in biomass energy systems. The expert’s insights motivated research scholars to explore interdisciplinary research areas combining mechanical engineering, materials science, energy systems, and sustainability.

The lecture concluded with a vote of thanks from the Department of Mechanical Engineering, HBTU, Kanpur, expressing sincere gratitude to Prof. Arkom Palamanit for sharing his valuable knowledge and expertise. The session proved to be academically enriching and aligned well with the university’s vision of promoting sustainable and green technologies through quality research and international academic collaboration.

Dr. Yashvir Singh
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DEPARTMENT OF MECHANICAL ENGINEERING, HBTU KANPUR



Associate Professor, Energy Technology Program, Department of Specialized Engineering, Faculty of Engineering, Prince of Songkla University, Songkhla 90110, Thailand

PRESENTS

EXPERT TALK



on

BIOMASS PROCESSING TECHNOLOGIES

Date: 22 March 2025
Time: 2:30 PM to 4:00 PM

No Fees for Expert Talk.
Free of Cost



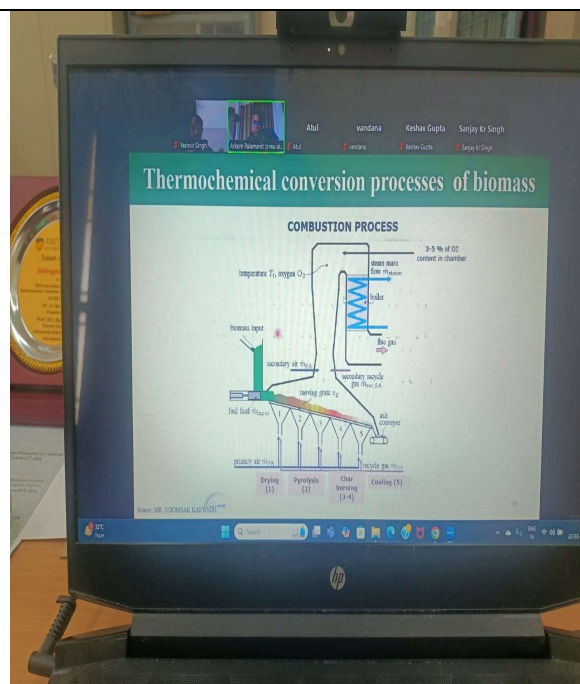
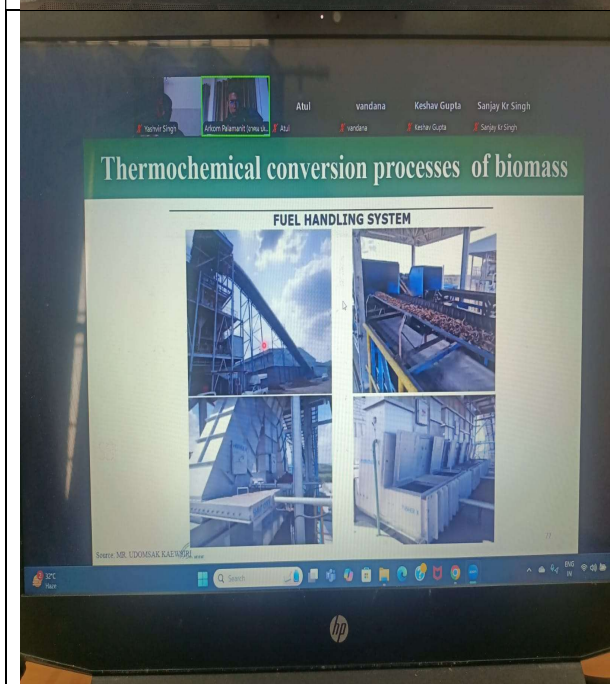
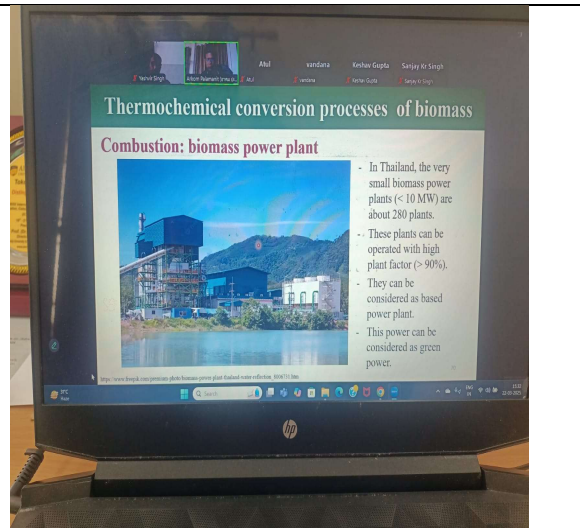
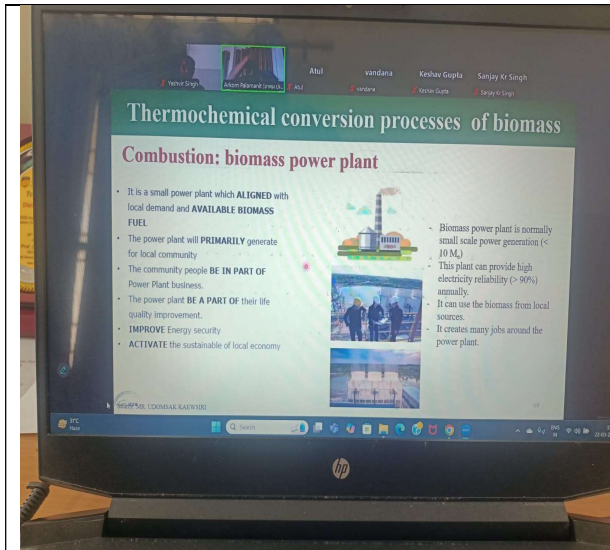
Google Meet Link:: <https://meet.google.com/urz-qabb-dud>
Registration Link: <https://forms.gle/Rv7HXVUn5SNkvybx7>

E-certificates will be distributed to participants after filling out the feedback form. Seats are limited. **The last date of Registration is 15/3/2025**

Chairman
Prof. Anand Kumar
HOD, Mechanical Engineering

Organizer
Dr. Yashvir Singh
Associate Professor, Mechanical Engineering

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