



Two days Workshop on Progresses in Gasification Technology (PGT-2024)



19 - 20 December 2024

10:00 AM – 05:00 PM

Grant No.: CRG/2021/005262

**No
Registration
Fees**

Overview

The workshop aims to showcase the cutting-edge gasification technology developed through a project funded by the Science and Engineering Research Board (SERB), Govt. of India. This event will provide a comprehensive knowledge on fundamentals, design, development, demonstration and simulation & modeling of a novel gasification technology. Moreover, hands-on experiments will also be performed to know more about instrumentations and techniques for measuring various parameters in the gasifier system. The workshop will also serve as a platform for discussing the potential applications of advanced gasification in clean energy and waste management solutions.

Important Dates

Last date for registration : **December 06, 2024**

Intimation of Selection: **December 10, 2024**

Certificate

Certificates of Participation will be given to all participants. Attendance is compulsory for all the events of the workshop.

Food & Accommodation

- Lunch and tea will be served to the participants.
- No on-campus accommodation will be provided to the participants.

Eligibility & Registration

- A limited number of participants from AICTE recognized institutions / Industries will be eligible for attending the workshop.
- The registration for the workshop is limited to 35 participants only on first cum first serve basis.
- For registration, candidates must fill the online form through the given link/QR:



<https://forms.gle/zc7BzaZnEHa1rTnv5>

Coordinator



Dr. Pankaj Kalita

Associate Professor

School of Energy Science and Engineering
Indian Institute of Technology Guwahati
Guwahati – 781039, Assam, India

AGT-2024



pankajk@iitg.ac.in



0361 258 3129/ 3126 (Office)

Workshop Schedule

Day 1 (19 December 2024)

09:30 – 10:00	Introduction to the Workshop
10:00 – 11:00	Expert Talk 1
11:00 – 12:00	Expert Talk 2
12:00 – 13:00	Expert Talk 3
13:00 – 14:30	Lunch
14:30 – 15:30	Expert Talk 4
15:30 – 16:30	Expert Talk 5

Day 2 (20 December 2024)

10:00 – 11:15	Expert Talk 6
11:15 – 12:30	Expert Talk 7
12:30 – 14:30	Lunch
14:30 – 16:45	Developed Gasifier Demonstration
16:45 – 17:00	Certificate Distribution and High Tea

Speakers



Dr. Pankaj Kalita
Associate Professor
SESE, IITG



Dr. Hirakh J. Das
Post Doctoral Fellow
University of Antwerp



Mr. Debarshi Baruah
Technical Officer
SESE, IITG



Prof. Subrata Majumder
Professor
Chemical Engg., IITG



Dr. Samar Das
GHG Auditor
Ecolance Pvt. Ltd.



Mr. Rabindra K. Banik
PhD. Scholar
SESE, IITG

Topics to be addressed

- Heat transfer between fluidized beds and surfaces and modeling
- Design of fluidized bed reactors
- Fundamentals of gasification technology
- Hydrodynamics of Dual fluidized bed system
- Scale up model of dual fluidized bed system
- Numerical modeling and simulation of dual fluidized bed system
- Engine performance with produced producer gas and syngas
- Live demonstration of operation of DFB Gasifier unit