

## ORGANIZING COMMITTEE

### I. CHIEF PATRON

**Prof. Deepak Kumar Sahoo**  
Vice-Chancellor, VSSUT Burla

### II. PATRON

**Prof. Sukalayan Dash**  
Dean SRIC, VSSUT Burla

### III. CHAIRMAN

**Dr. Trinath Biswal**  
Head, Department of Chemistry, VSSUT Burla

**Dr. Gyan Ranjan Biswal**  
Head, Department of Electrical and Electronic Engg.  
VSSUT Burla

### IV. CONVENER

**Dr. Achyut Kumar Panda**  
Associate Professor,  
Department of Chemistry, VSSUT Burla

### V. CO-CONVENER

**Dr. Sasmita Behera**  
Assistant Professor,  
Department of Electrical and Electronic Engg.  
VSSUT Burla



*“An event of Platinum Jubilee year of VSSUT (1956-2026)”*

ONE-DAY KICK-OFF TECHNICAL PROGRAM

ON

**“MEMBRANE TECHNOLOGY:  
Applications to Air Pollution Mitigation”**

Proposed under: ANRF-PAIR Programme

Date: 24<sup>th</sup> March 2026

Time: 10:00 AM – 5:00 PM



Anusandhan  
National  
Research  
Foundation



Organized by

Department of Chemistry  
&

Department of Electrical and Electronic Engg.,

Veer Surendra Sai University of Technology  
Sidhi Vihar, P.O.: Engineering College  
Burla, Sambalpur-768018, Odisha, India

Website: [www.vssut.ac.in](http://www.vssut.ac.in)

## ABOUT THE ANRF-PAIR INITIATIVE: NIT ROURKELA (HUB) & VSSUT BURLA (SPOKE)

Under the prestigious Anusandhan National Research Foundation (ANRF) Partnerships for Accelerated Innovation and Research (PAIR) program, the National Institute of Technology (NIT) Rourkela has been selected as a Hub institution to mentor and collaborate with a network of Spoke institutions, including Veer Surendra Sai University of Technology (VSSUT), Burla. Notably, NIT Rourkela stands as the only NIT in India and the sole hub institute from Eastern India to earn this distinction, a testament to its research excellence and its national standing in engineering education. As the Hub, NIT Rourkela will leverage its advanced expertise to mentor VSSUT Burla, a key Spoke partner. VSSUT Burla holds the proud distinction of being the oldest technological institute in the state of Odisha, with a rich legacy of producing exceptional engineers and innovators for over six decades. This partnership brings together NIT Rourkela's contemporary research prowess with VSSUT's deep-rooted experience, fostering a collaborative research ecosystem under the multidisciplinary consortium titled "Consortium of Technologies for Sustainable Agriculture, Health, Energy, and Environment," which focuses on developing impactful solutions in critical areas such as energy technologies, environmental sustainability, health and medical technologies, and sustainable agriculture.

## ABOUT THE PROGRAM

This one-day kick-off technical program aims to initiate discussions on the application of membrane technology for air pollution mitigation, bringing together academia, researchers, and stakeholders to explore advanced separation processes, membrane materials for gas purification, and strategies for industrial emission control, aligned with the objectives of the ANRF-PAIR initiative. With industrial emissions being a primary concern for environmental health, membrane technology offers a robust, energy-efficient, and scalable solution for capturing particulate matter, greenhouse gases, and volatile organic compounds (VOCs). Aligned with the objectives of the ANRF-PAIR initiative, this program serves as a platform to foster collaborative research and translate laboratory innovations into field-scale deployments

## THEMES TO BE COVERED

- 1)The Environmental Imperative
- 2)Fundamentals of Membrane Technology
- 3)Innovations in Advanced Materials
- 4)Advanced Fabrication Techniques
- 5)Real-World Membrane Applications

## SCHEDULE OVERVIEW

Time	Session
09:00 – 10:00	Registration
10:00 – 10:30	Inaugural Session
10:30 – 11:30	Technical Session I: Climate Change, Natural Hazards, and Air Pollution: Sustainably Living on Planet Earth
11:30 – 12:00	Technical Session II: Introduction to Membrane: From Basics to Research"-with special emphasis on air purification applications.
12:00-12:30	Technical Session III: Electro spinning for Membrane Fabrication
12:30 – 13:30	Technical Session IV: Sustainable Indoor Air Conditioning and Purification Employing Polymeric Membranes
13:30 – 15:00	Lunch break
15:00 – 17:00	Project discussions, and formulation of a future research and collaboration roadmap

## PARTICIPATION

All the Co-PIs and Research associates & Research fellows under ANRF-PAIR project, Academicians and Research Scholars (Chemistry, Chemical Engg, Environmental, EEE, and other interested)

## REGISTRATION DETAILS

### Link for Registration :-

<https://docs.google.com/spreadsheets/d/1ItNMVuFD4MJY1p7ubITJE7AFFrZGgGDQaes7Pe0wg68/edit?usp=drivesdk>

Name of the Participant: \_\_\_\_\_

Name of College/Institute/University: \_\_\_\_\_

Email ID: \_\_\_\_\_

Mobile No: \_\_\_\_\_

**N.B.: Participation is free of charge**

**[For registration and queries, please contact:](#)**

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