WCEF ACCELERATOR SESSION

ELC:SEC

Experiential Learning Centre:
Sustainable Energy and Circularity

An IIT Roorkee–NAMTECH Initiative
(Supported by NTPC)

MET4CE:
Manufacturing Engineering Technology for Circular Economy

WCEF2026 Accelerator Session

18th September 2026 Friday	10:00 AM – 1:00 PM IST	Venue Anant National University, Ahmedabad

Manufacturing Engineering is Central to Circular Production

The shift towards circular manufacturing is reshaping the engineering agenda from resource efficiency and process optimisation to optimising product design, material use and production systems, with increasing emphasis on automation, digitalisation, remanufacturing, end-of-life recovery & reuse.

MET4CE Brings this Agenda into Focus

A focused conference session bringing together industry, academia and technology leaders through a keynote and panel discussion to explore how Manufacturing Engineering & Technology (MET), Industry 4.0, AI & advanced production systems can accelerate the transition towards resource-efficient, resilient and circular manufacturing.

From Linear to Circular

Design for Circularity
- Durability • Repairability
- Resource efficiency
- Recoverability

→

Manufacture
- Materials • Energy
- Processes
- Advanced production systems

→

Use & Maintain
- Performance • Maintenance
- Monitoring • Product life

↓

Repair / Upgrade / Reuse
- Life extension
- Performance enhancement
- Second-life applications

←

Remanufacture
- Component recovery
- Product restoration
- Value retention

←

Recover
- Life extension
- Performance enhancement
- Second-life applications

Circularity starts with engineering decisions made across the product lifecycle

The MET4CE Focus

Industry 4.0	Artificial Intelligence	Digital Twins	Advanced Manufacturing	Automation	Data

From circularity ambition to industrial application

MET4CE examines the engineering and capability shifts required to make circular manufacturing technically viable, scalable and industrially relevant

About WCEF2026 | 10th edition

The World Circular Economy Forum (WCEF) is a global platform convened by Sitra, the Finnish Innovation Fund, bringing together governments, businesses, innovators and experts to advance circular economy solutions.

WCEF2026 in India is jointly organised by Sitra and the Central Pollution Control Board (CPCB), supported by the Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India, in coordination with the Government of Gujarat and in collaboration with global and Indian partners.

MET4CE is one of 75 WCEF2026 Accelerator Sessions, selected from hundreds of applications.

Programme Schedule

18 SEPTEMBER 2026 | 10:00 AM–1:00 PM

Keynote Addres by:

Dr. Vijay Kumar Saraswat
Member, Advisory Council, NAMTECH
Distinguished scientist & technology leader

Dr. Leena Srivastava
Member, Advisory Council, NAMTECH
Energy & sustainability expert

PANEL DISCUSSION 1

Dr. Ibrahim Hafeezur Rehman
Director General & CEO, NAMTECH

Dr. Sanjeev Vidyarthi
Provost,
Anant National University

Mr. Biplab Ketan Paul
Social Entrepreneur and Director, NSPL

Mr. Akilur Rahman
Chief Technology Officer,
Hitachi Energy India Ltd

Mr. Aamir Akhtar
Group President & CEO, Textiles,
Jindal Worldwide Ltd

PANEL DISCUSSION 2

Dr. Rohan Dutta
Director, School for Climate Action
Anant National University

Ms. Adyasha Mohanty
Sustainability & Circular Economy Analyst,
Frost & Sullivan

Ms. Sakshi Baluni
Sustainability Professional,
Excel Green

Dr. Biswajit Debnath
Centre of Excellence (CoE) of Cyber Security & AI
STCET, Kolkata

Mr. Aashish Taneja
Head of Operations (ESG)
KPMG India

Mr. Ronak Mistry
Carbon Capture Utilization & Storage
Greenovate Solutions Pvt. Ltd.

12:30 PM The Centre's First White Paper Release

01:30 PM Networking & Collaboration

The People and ideas Behind MET4CE

ENGINEERING THE NEXT GENERATION OF MANUFACTURING

An industry-led institution for Manufacturing Engineering & Technology

Established by AM/NS India, NAMTECH brings industry and education closer together through experiential learning, applied research and industry engagement, preparing talent for the technologies and challenges shaping manufacturing.

DESIGNING FOR A CHANGING WORLD

A design-led university advancing innovation and climate action

Anant National University brings design, technology and interdisciplinary thinking together to address complex challenges and create solutions with real-world impact.

Design for Circularity
Where Design Meets Manufacturing

Bringing different disciplines into one conversation

MET4CE brings ANU's design perspective and NAMTECH's manufacturing expertise together to curate a conversation around a defining question for circularity: how can we rethink the way products are designed, engineered and made so that value is retained for longer?

From Ideas to Action

MET4CE brings design, engineering and manufacturing into one conversation to explore what it takes to make circularity work in practice.

Sessions Spotlight

THE CENTRE'S FIRST WHITE PAPER

The white paper examines the role of manufacturing engineering, Industry 4.0, AI and digital technologies in enabling more resource-efficient, resilient and circular manufacturing systems.

Convened By

Experiential Learning Centre for Sustainable Energy and Circularity (ELC:SEC) Jointly established by NAMTECH and IIT Roorkee, withCSR support from NTPC Limited

NAM:TECH Institute of Manufacturing Innovation | एनटीपीसी NTPC | IIT Roorkee

In Partnership with

ANANT NATIONAL UNIVERSITY

Patrons

Dr. Ibrahim Hafeezur Rehman
Director General & CEO,
NAMTECH

Dr. Andallib Tariq
Dean – Academics
NAMTECH

Organising Committee

Organising Lead

Dr. Shuchi Sharma
Assistant Professor
NAMTECH

Ms. Chandni Moudgil
Associate Director, School of Sustainability
NAMTECH

Organising Team

Dr. Anupam Singh
Professor
NAMTECH

Dr. Sunil Pathak
Associate Professor
NAMTECH

Dr. Abhisek Parida
Assistant Professor
NAMTECH

Dr. Mohit Pandey
Assistant Professor
NAMTECH

Dr. Deepak Kumar
Assistant Professor
NAMTECH

Dr. Kaushal Trivedi
Laboratory Assistant
NAMTECH

Mr. Susim.Mohanty
General Manager
Branding & Communications
NAMTECH

Mr. Dipankar Trehan
Senior Manager
Branding & Communications
NAMTECH

Ms. Shivangi Balasaria
Manager
Branding & Communications
NAMTECH

Ms. Astha Singh
Deputy Manager
Branding & Communications
NAMTECH

Mr. Anurag Patel
Assistant Manager
Centre of Sustainable Energy and Circularity
NAMTECH