

 Live Virtual Masterclass Programme

# Leading Plastics Sustainability: **From Linear to Circular Economy Transformation**

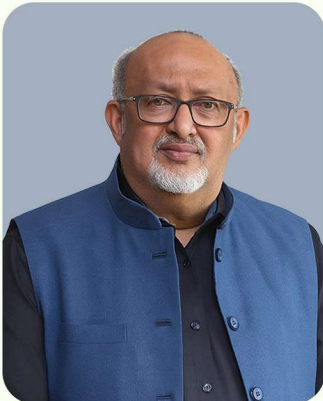


**Sept 25,  
2025**



**2:00 PM –  
6:00 PM IST**

## Faculty:



### **Dr. Prasad Modak**

Managing Director –  
Environmental Management Centre Pvt. Ltd.  
Director – Ekonnnect Knowledge Foundation



### **Dr Shilpi Kapur**

Senior Vice President  
Head- Strategic Partnerships and Alliances –  
Environmental Management Centre Pvt. Ltd.  
Vice President – EKonnnect Knowledge Foundation



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Module 1: Foundations of Plastic Sustainability

Module 2: Manufacturing & Process Excellence to promote sustainability

Module 3: Emerging Trends enabling sustainability in plastics sector

## **Master Class Objectives**

- Provide comprehensive understanding of global sustainability trends, environmental challenges, and circular economy principles as they apply to the plastics industry.
- Inform participants about emerging energy-efficient manufacturing processes, waste minimization strategies, and green chemistry applications
- Familiarize participants with Industry 4.0 applications, digital sustainability tracking solutions, and supply chain traceability systems for the plastics sector.
- Introduce the relevance of life cycle assessment methodologies for sustainable decision-making
- Prepare participants to champion sustainability initiatives and drive organizational change within their respective organizations.

## **Module 1: Foundations of Plastic Sustainability**

- Global sustainability trends are shaping the industry landscape.
- Current environmental challenges and plastic waste crisis.
- Circular economy principles and their application in polymer industries.
- Life cycle assessment (LCA) for sustainable decision-making.

## **Module 2: Manufacturing & Process Excellence to promote sustainability**

- Energy-efficient production processes and carbon footprint reduction.
- Waste minimization strategies in plastic manufacturing.
- Green chemistry applications.
- Quality control for recycled and bio-based materials.

## **Module 3: Emerging Trends enabling sustainability in plastics sector**

- Industry 4.0 applications in sustainable polymer manufacturing.
- Digital solutions for plastic sustainability tracking and reporting.
- Traceability for improving supply chain sustainability

## **Who should attend?**

### **Industry Professionals:**

- Manufacturing engineers and production managers in plastic manufacturing companies.
- Quality control specialists and process optimisation experts.
- R&D personnel working on sustainable polymer technologies.
- Supply chain managers dealing with polymer materials and circular economic implementation.

### **Business Leaders & Decision Makers:**

- CEOs, operations directors, and sustainability officers in plastic industries.
- Strategic planning executives focused on environmental compliance and market positioning.
- Investment managers and entrepreneurs interested in sustainable plastic ventures.

### **Technical & Academic Community:**

- Material scientists and polymer engineers developing biodegradable solutions.
- Environmental consultants and sustainability advisors.
- Academic researchers and graduate students in materials science and environmental studies.

## **Regulatory & Policy Professionals:**

- Government officials and regulatory bodies involved in plastic waste management.
- Compliance officers managing EPR (Extended Producer Responsibility) requirements.

## Expected Outcomes

This master class equips learners with comprehensive knowledge and practical understanding of sustainability within the plastics sector, enabling them to navigate and lead their organizations through the rapidly evolving sustainability landscape.

### For Individual Participants:

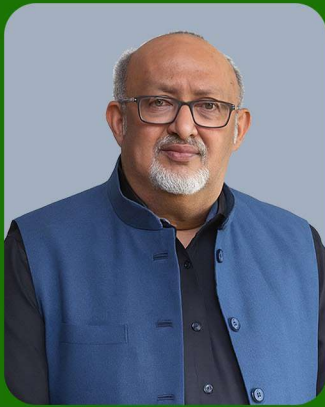
- Certification under the Master Class in Sustainable Plastic Practices, enhancing career credentials.
- Acquire skills to champion sustainability initiatives, influence stakeholders, and drive meaningful organizational change toward environmental responsibility.
- Specialized knowledge in a rapidly growing field with increasing market demand and career opportunities.
- Skills to lead sustainability initiatives and drive organizational change.
- Valuable connections with sustainability experts and industry leaders.

## **For Organizations:**

- Enhanced reputation and competitive differentiation through sustainable practices.
- Identification of cost-saving opportunities through efficient resource utilization.
- Reduced regulatory, environmental, and supply chain risks.
- Improved relationships with customers, investors, and regulatory bodies.

## **For the Industry Ecosystem:**

- Contribution to industry standards and sustainable manufacturing protocols.
- Enhanced industry-wide collaboration on sustainability challenges.
- Progress toward eliminating plastic waste and achieving material circularity.
- Contribution to environmental protection and sustainable development goals.



## **Dr. Prasad Modak**

**Managing Director –  
Environmental Management Centre Pvt. Ltd.**

**Director – Ekonnnect Knowledge Foundation**

Dr. Prasad holds a total experience of more than 40 years with specialties in Environmental policy, Environmental assessment, ESG at financing institutions, business and sustainability, circular economy and capacity building in environmental management.

He holds a B Tech (Civil Engg), M Tech (Environmental Science and Engg) from Indian Institute of Technology (IIT) Bombay and Doctor of Engg (Environmental Engg) from Asian Institute of Technology, Bangkok.

Dr Modak was a Professor at Centre for Environmental Science & Engineering at IIT Bombay (1984-1994) and later as Professor (Adjunct) at the Center for Technology Alternatives in Rural Areas (CTARA) (2009-2017). He is currently the Managing Director of EMC and Director of Ekonnnect Knowledge Foundation.

Dr Modak has worked with almost all key UN, multi-lateral, and bi-lateral developmental institutions in the world. These include the World Bank, IFC, Asian Development Bank, European Investment Bank, UNEP, UNIDO, UNDP, DFID, Swedish and Dutch Embassies in Delhi etc and intergovernmental organizations such as the Asian Productivity Organization, Tokyo. Apart from Government of India and various State Governments, Dr Modak's advice is sought by Governments of Bangladesh, Egypt, Indonesia, Mauritius, Thailand, and Vietnam.

Dr Modak was a member of Indian Resources Panel (IRP) at Ministry of Environment, Forests and Climate Change (MoEFCC) and currently is a Member of Task Force on Sustainable Public Procurement at the Ministry of Finance. He is also on the Advisory Committee on G20 India Presidency – Circular Economy set up by Ministry of Environment, Forests and Climate Change. Currently, he chairs the Product Advisory Committee set up by NCDEX on carbon market.

Dr Modak has published several books on environmental management. His book on EIA for Developing Countries was published by UN University (1999) and later reprinted by Oxford University Press (2005). Later, this book was translated in Chinese and Japanese. His book “Environmental Management Towards Sustainability” was published in December 2017 with CRC Press of Taylor and Francis Group. His latest book on Practicing Circular Economy for the CRC Press was released in June 2021.



## **Dr Shilpi Kapur**

**Senior Vice President**

**Head- Strategic Partnerships and Alliances –  
Environmental Management Centre Pvt. Ltd.**

**Vice President – EKonnnect Knowledge Foundation**

Dr. Shilpi Kapur is a trained economist with over 17 years of experience in environment and natural resource management. Her work focuses on circular economy policy, ESG practices, and engaging corporates and financial institutions in sustainable transitions. She has led initiatives in policy research, awareness building, training and capacity building, and the design of green finance instruments to promote circular economy.

Shilpi has worked with multilateral and bilateral organizations, industry stakeholders, and various arms of the Government of India. She has managed large, multi-team projects supported by donors such as the UK's FCDO and Norway's Ministry of Foreign Affairs.

Her recent work includes providing technical support to Government of India on the theme of circular economy under India's G20 Presidency, and on green steel transition. Shilpi also led the work on preparing the Circular Economy Action Plan for the State of Gujarat and is currently supporting the Gujarat government on the implementation of the Plan. She has also led projects on sustainable public procurement and designing and conducting training programs on waste management and circularity, and sustainable finance. In a recent project, Shilpi co-led the work on developing a framework including the institutional mechanism and financial model for establishing a Centre of Excellence on Circularity for India.

Her research encompasses multiple sectors, including plastic waste management, used oil recovery, end-of-life vehicle processing, solar photovoltaic systems, tourism sustainability, electronic waste, and wastewater treatment. A central theme throughout her work across these waste management sectors has been the integration of informal sector workers to enhance their economic opportunities and improve their livelihoods.

She is an ANDE-certified Investment Manager and a SEED BDS+ Advisor for eco-inclusive enterprises. She holds a PhD in Economics from Washington University in St. Louis in USA and Master's and Bachelor's degrees from Delhi University. Prior to EMC, she was a Senior Fellow at TERI.

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