

IIT Madras CODE and
School of Sustainability IITM
offer Certificate Program on

SUSTAINABILITY FOR **INDIAN BUSINESSES**

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TABLE OF CONTENTS

About the Course 03

Course Instructors 04

Module 1
Essentials of Sustainability 05

Module 2
Sustainability in the Corporate Ecosystem 06

Module 3
Measuring, Reporting and Re-assessing Sustainability 07

Module 4
Sustainability Toolkit 08

Module 5
Sustainability Worldview 09

Module 6
Actioning Sustainability 10



Why this course?

1) Build confidence & competence in actioning Sustainability from a cradle-to-grave

2) Shape the right mindset via refreshing the nuts and bolts of Sustainability

3) Develop a critical knowledge of the existing and upcoming sustainability frameworks and of business implications of India's shifting Policy Landscape

About this course:

The goal of this 6-week program is to familiarize learners with the multi-dimensional nature of sustainability in connection with its real-world implications. Through communicating the existing (and upcoming) toolkit for imagining sustainable Industry Landscape in India at the backdrop of India's changing policy frameworks, the course inculcates a systemic view into sustainability in tandem with equipping learners to ideate practical sustainable scenarios for their respective industries.

Mode:

This course comprises of 25 hours of recorded videos and 12 hours of ONLINE interactive sessions with the faculty.

Eligibility:

There are no prerequisites to the program, however, the criterion for the intended audience may automatically assume a technical or managerial background essential for the respective industry.

Intended audience:

This "refresher" certificate program is open to any 'mid career' industry professional in India.

Course Fees:
Rs 25000/- + 18% GST

Course Duration: 06 weeks

Register Here

Course Instructors



Prof. Satyanarayanan Seshadri
Dept. of Applied Mechanics and
Biomedical Engineering, IIT Madras



Dr Charuta Kulkarni
Principal Scientist, School of
Sustainability, IIT Madras



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Prof. Rajnish Kumar
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Mr E. Nandakumar
CEO, International Centre for
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Module 1: Essentials of Sustainability

Instructors

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Dr Christoph Woiwode
Visiting Professor, Indo-German Centre For Sustainability, IIT Madras

Module description

This introductory module speaks about the nuts and bolts of Sustainability and dives into the concept of circularity in the context of today's world. It scaffolds into brainstorming why sustainability makes sense for the businesses, helping shape the mindset essential for ideating real-world sustainable business strategies.

Concepts covered

- What is sustainability and what is not sustainability?
- Climate Change, Risks, Adaptation
- Water Resources and Management
- Waste Management and Circular Economy
- Renewable Energy and Energy Efficiency
- Natural Resource Management
- Socio-cultural Dimensions and Resources for Sustainable Transformations

Learning outcomes

- Introduction to Sustainable Development Goals (SDGs) and role of corporates in achieving SDGs
- Systemic view into sustainability
- Right mindset for all-round sustainable business strategy



Module 2: Sustainability in the Corporate Ecosystem

Instructors

Prof. Ashwin Mahalingam
Dept. of Civil Engineering, IIT Madras

Dr Parama Roy
Adjunct Faculty, Dept. of Civil Engineering, IIT Madras
Executive Director, Okapi Research and Advisory Pvt Ltd

Dr Rahul Muralidharan
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The Energy Consortium, IIT Madras

Mr Madhavan Nampoothiri
Dept. of Management Studies,
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Co-Founder, NordESG, Germany.

Module description

Starting with making sustainability as business case, the module provides a critical review of the existing sustainability frameworks (e.g. ESG). The module unfolds the Corporate Scenario Analysis toward climate-related risks and opportunities as an intrinsic mechanism, thereby making a way for weaving external mechanisms in implementing sustainability.

Concepts covered

- Business Case for Sustainability
- ESG Assessment
- Corporate Scenario Analysis
- Extrinsic Sustainability Scenarios including Public Private People Partnerships; Small-Medium Enterprises and Grassroot-level Innovations

Learning outcomes

- Sustainability-profitability trade-offs and synergies
- How can we measure sustainability better using existing frameworks, both quantitatively and qualitatively?
- How fine-tuning intra-organizational policies can make a way for implementing external and socially-just means of implementing sustainability?



Module 3: Measuring, Reporting and Re-assessing Sustainability

Instructors

Mr Raghuttama Rao
CEO, Gopalakrishnan-Deshpande Centre for Innovation & Entrepreneurship, IIT Madras

Prof. Santosh Kumar Sahu
Dept. of Humanities and Social Sciences, IIT Madras

Mr E. Nandakumar
CEO, International Centre for Clean Water, IIT Madras

Prof. Rajnish Kumar
Dept. of Chemical Engineering, IIT Madras

Module description

This module's delivery is rooted in the geopolitical context of India and its shifting Policy Landscape that, in turn, has implications for industries. The discussion goes on introducing upcoming toolkits toward environmental measurement frameworks and gets into the mechanics of environmental economics, thinking aloud its limitations and ways forward.

Concepts covered

- State and Fate of Reporting Frameworks - Why is it essential to go beyond the existing ESG reporting frameworks?
- Where is India in terms of defining climatic and environmental goals and what are its business implications?
- Environmental Policies and Practices
- Carbon and Water Footprint Measurement Frameworks

Learning outcomes

- Existing and upcoming frameworks for measuring and reporting sustainability
- India's Policy Landscape
- Environmental assessments
- Elements of environmental economics



Module 4: Sustainability Toolkit

Instructors

Prof. Ashwin Mahalingam
Dept. of Civil Engineering, IIT Madras

Prof. Vinu R
Dept. of Chemical Engineering, IIT Madras

Prof. Sivakumar Palaniappan
Dept. of Civil Engineering, IIT Madras

Prof. Ravindra Gettu
Dept. of Civil Engineering IIT Madras

Prof. Satyanarayanan Seshadri
Dept. of Applied Mechanics and Biomedical Engineering, IIT Madras

Module description

As the name suggests, the module offers the toolkit for ideating Sustainability pathways from cradle-to-grave. It deep dives into Life Cycle Assessment (LCA) using real-world examples from multiple sectors.

Concepts covered

- Life Cycle Assessment (LCA): Significance, Stages, Tools, Challenges
- Examples from industries including biofuels, buildings, materials, energy technologies

Learning outcomes

- What is LCA?
- How is LCA done?
- What are the different LCA tools and approaches that can be used to assess sustainability?
- Peer-learning through industry-specific case studies



Module 5: Sustainability Worldview

Instructors

Prof. Satyanarayanan Seshadri
Dept. of Applied Mechanics and Biomedical Engineering, IIT Madras

Prof. Rajnish Kumar
Dept. of Chemical Engineering, IIT Madras

Module description

This module is embedded with a number of examples on actioning Sustainability. It will also help put Sustainability in context of Indian and global scenarios to the extent that can positively influence the process of ideating, planning, implementing, and troubleshooting.

Concepts covered

- Case Studies from the Developed and Developing Worlds

Learning outcomes

- International and national view into sustainable management



Module 6: Actioning Sustainability

Instructors

Mr Raghuttama Rao
CEO, Gopalakrishnan-Deshpande Centre for Innovation & Entrepreneurship, IIT Madras

Prof. Ashwin Mahalingam
Dept. of Civil Engineering, IIT Madras

Module description

This final module digs deeper into the process of ideation, planning, implementation, and troubleshooting for Sustainable transformations in the respective business ecosystems. The module also consolidates an update of reporting frameworks and discusses Business Responsibility and Sustainability Reporting (BRSR) as part of India's fight against climate change.

Concepts covered

- Crafting a Sustainable strategy for your business: selecting relevant framework(s); delineating Key Result Areas/Key Responsibility Areas; identifying periodic review and troubleshooting mechanisms
- Business Responsibility and Sustainability Reporting (BRSR)
- Carbon markets
- India's performance in climate in fighting climate change
- Review of Best Sustainability Practices

Learning outcomes

- Peer-learning through industry-specific case studies
- Development of action items for effectively implementing sustainable pathways in the view of upcoming Sustainability frameworks for India



Contact Us

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