



AICTE FDP

“Circular Economy” 16 December – 20 December 2024

Indian Institute of Technology Bhubaneswar

Objective: In today's fast-changing world, a circular economy is essential to sustainable growth. In comparison to the linear traditional economic model that depletes resources circular economy offers a radical alternative. It emphasizes a holistic strategy for conserving resources lowers waste, and boosts creativity, resilience, and economic competitiveness. This can be achieved by closing the loop of product lifecycles through strategies like recycling, remanufacturing, and renewable energy integration, the circular economy fosters a more resilient and regenerative economy. Keeping these in mind, the following are the major areas of reflection that will be considered for the AICTE FDP:

1. To develop a conceptual & theoretical understanding of circular economy along with the strategies and policies;
2. to analyse innovative drives, explore business models & circular economy practices and
3. to examine some real-world applications, enablers and barriers, national and international policies.

Dates: Five days FDP from **16.12.2024** to **20.12.2024** to be held in offline mode at IIT Bhubaneswar.

Who can apply?

Assistant Professors/Associate Professor/Ph.D. Scholars/PG students currently affiliated with any Higher Education Institution from all over India. **Candidates should be nominated by the respective Heads of Institutions.**

Coordinator: Dr. Dukhabandhu Sahoo, Associate Professor (Economics), School of Humanities, Social Sciences and Management, IIT Bhubaneswar

Co-Coordinator: Dr. Punyashree Panda (English), Associate Professor, School of Humanities, Social Sciences and Management, IIT Bhubaneswar

About the School: The School of Humanities, Social Sciences & Management at the Indian Institute of Technology, Bhubaneswar corroborates many humanistic disciplines through teaching and research across Language, Literature, Culture, Economics, Planning, Social Policy, Technological Development, Psychological Behaviors, Public and Private values. The school's aim is to help students develop the requisite communicative, analytic, and cultural knowledge to thrive in all aspects of their lives. The school is also home to a wide variety of interdisciplinary collaborations, path-breaking research projects, and unique areas of study.



About IIT Bhubaneswar: About Indian Institute of Technology Bhubaneswar: IIT Bhubaneswar, established by the Ministry of Human Resource Development, Government of India under The Institutes of Technology (Amendment) Act, 2011 came into existence on 22nd July, 2008. The Institute strives to offer the best engineering education with unmatched novelties in curriculum. Within a short span of incipience, IIT BBS has made rapid strides towards becoming one of the elite technology institutes of India spurred by sustained creation of knowledge and innovation, through high quality R&D activities and commitment to holistic education as students get exposed to a wide variety of activities through societies and clubs, involving liberal arts, design, dramatics, robotics, music, dance and sports, instilling them with social awareness, a spirit of innovation, entrepreneurship and thirst of discovery. All academic activities of the Institute are being carried out from the picturesque permanent campus at Argul, spreading over 936 acres of land of serene and pollution-free academic environment, in the state of Odisha, India. It is located on the feet of the historic and magnificent Barunei Hills.



Link to apply for the FDP: Kindly use Google Chrome for better results

<https://forms.gle/fsWGxZF9Ys5YPnPd8>

- ★ **Limited seats are available. Registration will be closed as soon as seats are filled.**
- ★ Candidates are required to provide an NOC (Annexure I) from their parent institution. The NOC needs to be uploaded on the registration form link.
- ★ Free accommodation will be provided at IIT Bhubaneswar. Participants will have to arrange their own travel to and from IIT Bhubaneswar. Lunch and refreshments will be provided during the sessions.
- ★ AICTE FDPs are free, and no fee will be charged from any participant.

For further details regarding the FDP, please contact:

Dr. Dukhabandhu Sahoo

Associate Professor
School of Humanities, Social Sciences and
Management
IIT Bhubaneswar

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Annexure-I

Letter Head

Participant NOC Format

Subject: NOC for Attending the FDP

Ref No. _____

Date: _____

To Whomsoever It May Concern

This letter is to express No Objection on Mr./Mrs./Ms./Dr. <_____Participant
name_____> in attending <FDP Title > conducted at < 'Institute Name'> from <Start
Date to End Date>.

This certificate is issued as per requirement of AICTE for successful conduction of this Faculty Development Program.

Yours Sincerely,

(Sign & Stamp)

HoI/Competent Authority

Institute Name and Address

**Schedule for AICTE FDP on “Circular Economy”
16-20 December 2024
Indian Institute of Technology, Bhubaneswar**

Name of the Coordinator: Dr. Dukhabandhu Sahoo

FDP Title: AICTE FDP on “Circular Economy”

FDP Start Date: 16.12.2024

FDP End Date: 20.12.2024

Day 1 Date: 16.12.2024	Day 2 Date: 17.12.2024	Day 3 Date: 18.12.2024	Day 4 Date: 19.12.2024	Day 5 Date: 20.12.2024
8:30 – 9:00 Inauguration				
9:00 – 11:00 Session 1 Introduction to the circular economy concept, its principles and benefits, and its importance in sustainable development.	9:00 – 11:00 Session 3 Examination of various strategies and frameworks for businesses and policymakers for implementation of Circular Economy practices	9:00 – 11:00 Session 5 Examination of some real-world applications by several successful case studies in various industries.	9:00 – 11:00 Session 7 Examining several enablers and barriers to the implementation of circular economy practices.	9:00 – 11:00 Session 9 Examination of national and international policies and regulations that support or hinder the adoption of Circular Economy principles.
11:00 – 1:00 Practical Session MacArthur, E. (2013). Towards the circular economy. <i>Journal of Industrial Ecology</i> , 2(1), 23-44. https://www.werktrends.nl/app/uploads/2015/06/Raapport_McKinsey-	11:00 – 1:00 Practical Session Kirchherr, J., Reike, D., & Hekkert, M. (2017). Conceptualizing the circular economy: An analysis of 114 definitions. <i>Resources, conservation and recycling</i> , 127, 221-232. https://doi.org/10.1016/j.resconrec.2017.09.005	11:00 – 1:00 Practical Session Ghisellini, P., Cialani, C., & Ulgiati, S. (2016). A review on circular economy: the expected transition to a balanced interplay of environmental and economic systems. <i>Journal of Cleaner production</i> , 114, 11-32. https://doi.org/10.1016/j.jclepro.2015.09.007	11:00 – 1:00 Practical Session Hina, M., Chauhan, C., Kaur, P., Kraus, S., & Dhir, A. (2022). Drivers and barriers of circular economy business models: Where we are now, and where we are heading. <i>Journal of Cleaner Production</i> , 333,	11:00 – 1:00 Practical Session Wasserbaur, R., Sakao, T., & Milios, L. (2022). Interactions of governmental policies and business models for a circular economy: A systematic literature review. <i>Journal of Cleaner Production</i> , 337, 130329. https://doi.org/10.1016/j.jclepro.2021.130329

			130049. https://doi.org/10.1016/j.jclepro.2021.130049	
1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch
1:30 – 3:30 Session 2 Exploration of the foundational principles of Circular Economy, including waste reduction, resource efficiency, and closing material loops.	1:30 – 3:30 Session 4 Implementing circular principles across supply chains.	1:30 – 3:30 Session 6 Exploration of innovative business models that promote product reuse, remanufacturing, and recycling as core elements of their value proposition.	1:30 – 3:30 Session 8 Analysing how innovation drives Circular Economy practices (From technological advancements to new service offerings).	1:30 – 3:30 Session 10 Anticipation of future developments and addressing challenges.
3:30 – 5:30 Practical Session Geissdoerfer, M., Savaget, P., Bocken, N. M., & Hultink, E. J. (2017). The Circular Economy–A new sustainability paradigm? <i>Journal of cleaner production</i> , 143, 757-768. https://doi.org/10.1016/j.jclepro.2016.12.048	3:30 – 5:30 Practical Session Kazancoglu, Y., Ekinici, E., Mangla, S. K., Sezer, M. D., & Kayikci, Y. (2021). Performance evaluation of reverse logistics in food supply chains in a circular economy using system dynamics. <i>Business Strategy and the Environment</i> , 30(1), 71-91. https://doi.org/10.1002/bse.2610	3:30 – 5:30 Practical Session Bocken, N. M., De Pauw, I., Bakker, C., & Van Der Grinten, B. (2016). Product design and business model strategies for a circular economy. <i>Journal of industrial and production engineering</i> , 33(5), 308-320. https://doi.org/10.1080/21681015.2016.1172124	3:30 – 5:30 Practical Session Suchek, N., Fernandes, C. I., Kraus, S., Filser, M., & Sjögrén, H. (2021). Innovation and the circular economy: A systematic literature review. <i>Business Strategy and the Environment</i> , 30(8), 3686-3702. https://doi.org/10.1002/bse.2834	3:30 – 4:30 Practical Session De Jesus, A., Antunes, P., Santos, R., & Mendonça, S. (2019). Eco-innovation pathways to a circular economy: Envisioning priorities through a Delphi approach. <i>Journal of Cleaner Production</i> , 228, 1494-1513. https://doi.org/10.1016/j.jclepro.2019.04.049
				4:30 – 5:30 Evaluation & Valedictory Function