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Prof. (Dr.) Bidyadhar Sahoo
Director
IGIT Sarang

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Deptt. of Civil Engg.

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Prof. B. P. Panigrahi, Dean (PGS&R)
Prof. P Das, Dean (SW)
Prof. P.K.Pani
Prof. C. R. Sahoo

Coordinator

Dr. Sujit Kumar Pradhan
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Co-Coordinator

Dr. Srinivas Sethi
Professor
Deptt. Of Computer Science Engineering &
Application
Email: igitsethi@gmail.com

About the Institution

Indira Gandhi Institute of Technology (IGIT), Sarang, established in 1982 by the Government of Odisha, offers eight undergraduate engineering courses, nine full-time and two part-time postgraduate engineering/master's programs, three MSc courses, and five diploma courses in Civil, Electrical, Electronics & Telecommunication, Mechanical, and Metallurgical Engineering.

Spanning 179 acres, the campus features a central library with 27,000 books, a computer center, workshops, eight hostels, and various amenities like a guest house, hospital, post office, canteen, SBI branch, cooperative store, NSS, NCC, clubs, a telephone exchange, and schooling up to high school level.

Recognized for its academic excellence, IGIT was the first government engineering college in Odisha to have five undergraduate courses accredited by the NBA (AICTE). The institute was granted **autonomous status** in 2017, further enhancing its academic standing.

Department of Civil Engineering

The department at IGIT has highly qualified faculty, offering students both theoretical knowledge and practical exposure through site visits and industrial tours.

The AICTE has approved a two-year P.G. program in Structural, Geotechnical, Transportation, and Environmental Engineering. Recognized as a QIP Centre by AICTE/MHRD, the department earned NBA accreditation for 2022-2025. It boasts well-equipped labs for Environmental, Geotechnical, Hydraulic, Structural, and Transportation Engineering, along with a Surveying Lab and Departmental Computer Centre.

6 Days Online
Faculty Development Program
on

**Empowering the Future: Sustainable
Energy for a Changing Climate**

Under
AICTE Training & Learning (ATAL) Academy



Sponsored By

*AICTE New Delhi
From*

24th-29th November 2025

Organized by

Department of Civil Engineering
Indira Gandhi Institute of Technology
Sarang
(An Autonomous Institute of Government of Odisha)
Dhenkanal-459146, Odisha, India

About FDP

6 days Online FDP on “**Empowering the Future: Sustainable Energy for a Changing Climate**” to be organized by the Department of Civil Engineering, IGIT Sarang is intended to assist the researchers, faculties, industry personnel and professionals mainly from academic institutions, industries of Indian and foreign country to share their knowledge and to develop mutual training and research activities in the field of energy, sustainability and climate change.

Objective

The objective of the FDP to enhance the knowledge and skills of faculty members in the field of sustainable energy technologies and climate change mitigation. The program aims to foster awareness of renewable energy solutions, energy efficiency practices, and their role in achieving environmental sustainability. It seeks to empower educators to integrate these concepts into their teaching and research, promoting interdisciplinary collaboration and innovation. By doing so, the FDP supports the development of future-ready professionals committed to addressing global energy and climate challenges. It also is to equip participants with in-depth knowledge and skills related to sustainable energy practices and the impacts of climate change. It aims to create a platform for educators, researchers, and professionals to collaborate on solutions for a sustainable future.

Outcome of the FDP

This FDP is expected to yield several key outcomes. Participants will gain a comprehensive understanding of sustainable energy technologies, climate change dynamics, and their interconnections. They will be equipped with the latest insights on renewable energy systems, energy efficiency strategies, and policy frameworks aimed at reducing carbon footprints. Faculty members will enhance their ability to incorporate sustainability concepts into curricula, fostering environmental awareness among students. The FDP will also encourage interdisciplinary research, innovation, and collaborative projects addressing energy and climate challenges. By the end of the program, participants will have developed the capacity to mentor students in sustainability-focused projects and promote eco-conscious practices within their institutions. Ultimately, the FDP will contribute to building a network of empowered educators who are capable of shaping future professionals committed to creating a sustainable, climate-resilient world.

Eligibility for participants

The faculty members, Research scholars & PG Scholars of the AICTE approved institutions and Industry Personnel

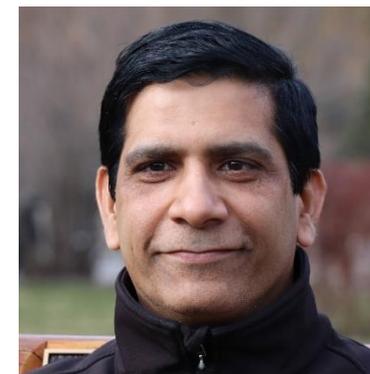
Registration fees

*“No Charge for Registration, Course and Certification”
and Reference for filling FDP Proposal form*

Test and Certificate

- (a) A test shall be conducted (online) by coordinator at the end of the program.
- (b) The certificates shall be issued to those participants who are registered on ATAL portal (<https://atalacademy.aicte-india.org/signup>) and attend the program with minimum 80% attendance and score minimum 70% marks in the test.
- (c) Feedback must be shared by participants through portal available on their login.

Resource Person



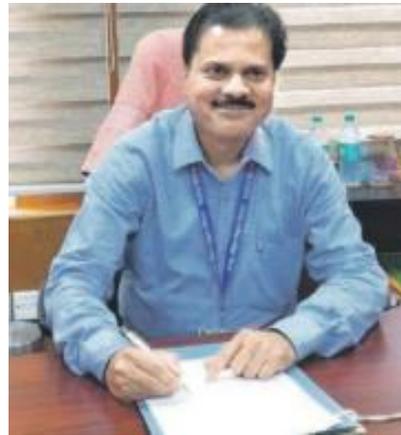
Name: Dr Brajesh Kumar Dubey
Designation: Professor, IIT Kharagpur
Experience: 18 Years



Name: Mr Shirish Garud
Designation: Consultant, TERI-
The Energy Resources Institute
Experience: 32 Years



Name: Dr Rakesh Roshan Dash
Designation: Professor, VSSUT Burla
Experience: 17 Years



Name: Dr Mrutyunjaya Mohapatra
Designation: Director General, India
Meteorological Department
Experience: 35 Years



Name: Dr Manorama Mohanty
Designation: Director, Meteorological Centre,
Bhubaneswar
Experience: 21 Years



Name: Dr S N Mishra
Designation: Senior Consultant, LEA Associates
South Asia Private Limited
Experience: 13 Years



Name of the Expert: Dr Subrata Hait
Designation: Associate Professor, IIT Patna
Experience: 15 Years



Name: Mr Gokul Pandian
Designation: Director, EY India, New Delhi
Experience: 19 Years



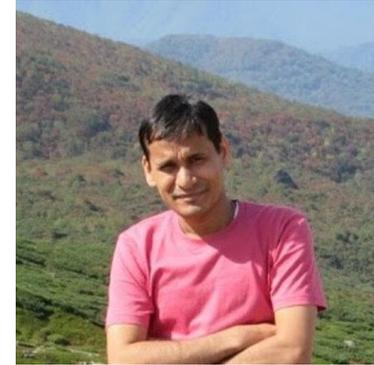
Name: Dr Sanjaya Kumar Patnaik
Designation: General Manager (Env & TQM),
National Aluminium Company Limited (NALCO)
Experience: 34 Years



Name: Dr Umesh Mishra
Designation: Professor, NIT Agartala
Experience: 32 Years



Name: Dr Puspendu Bhunia
Designation: Professor, IIT Bhubaneswar
Experience: 16 Years



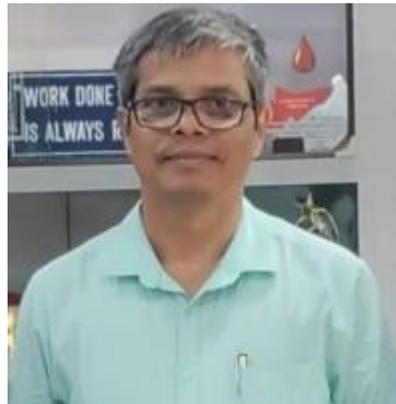
Name: Dr Sridhara Nayak
Designation: Chief Scientist, Japan
Meteorological Corporation, Japan
Experience: 11 Years



Name: Dr Amit Kumar Mishra
Designation: Professor, Aberystwyth University,
UK
Experience: 20 Years



Name of the Coordinator: Dr Sujit Kumar Pradhan
Designation: Assistant Professor, IGIT Sarang
Experience: 15 Years



Name of the Co-Coordinator: Dr Srinivas Sethi
Designation: Professor, IGIT Sarang
Experience: 26 Years

ATAL Online 6 Day Faculty Development Programmes 2025-26 Schedule

FDP Thrust Area: Energy, Sustainability & Climate Change

FDP Title: Empowering the Future: Sustainable Energy for a Changing Climate

Start Date: 24th November 2025 End Date: 29th November 2025

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
<p>6:00PM to 6:30PM</p> <p>Inaugural Session</p>	<p>6:00PM to 7:30PM</p> <p>Session 3</p> <p>Topic: Renewable integration and energy transition</p> <p>Name of the Expert: Mr Shirish Garud</p> <p>Designation & Organization: Consultant, TERI-The Energy and Resources Institute, Delhi</p> <p>Years of Exp: 32</p>	<p>6:00PM to 7:30PM</p> <p>Session 5</p> <p>Topic: A Review on Renewable energy generation Techniques to Combat Climate Change Impacts</p> <p>Name of the Expert: Dr Umesh Mishra</p> <p>Designation & Organization: Professor, NIT Agartala</p> <p>Years of Exp: 32</p>	<p>6:00PM to 7:30PM</p> <p>Session 7</p> <p>Topic: Indian Climate Changes, Cyclone Warning and Rescue</p> <p>Name of the Expert: Dr Mrutyunjaya Mohapatra</p> <p>Designation & Organization: Director General, India Meteorological Department</p> <p>Years of Exp: 35</p>	<p>6:00PM to 7:30PM</p> <p>Session 9</p> <p>Topic: Weather forecasting, climate variability impacts and remedies</p> <p>Name of the Expert: Dr Manorama Mohanty</p> <p>Designation & Organization: Director, Meteorological Centre, Bhubaneswar</p> <p>Years of Exp: 21</p>	<p>2:00PM to 3:30PM</p> <p>Session 11</p> <p>Topic: Importance of high-resolution data for enhanced Early warning and climate change: supporting AI development</p> <p>Name of the Expert: Dr Sridhara Nayak</p> <p>Designation & Organization: Chief Scientist, Japan Meteorological Corporation, Japan</p> <p>Years of Exp: 11</p>
<p>6:30PM to 8:00PM</p> <p>Session 1</p> <p>Topic: How to Measure Sustainability Parameters with respect to Energy and Climate Change?</p> <p>Name of the Expert: Dr Brajesh Kumar Dubey</p> <p>Designation & Organization: Professor, IIT Kharagpur</p> <p>Years of Exp: 18</p>	<p>7:30PM to 9:00PM</p> <p>Session 4</p> <p>Topic: Facing the Climate Crise: Impacts, Adaptation, Mitigation and the road to Net Zero</p> <p>Name of the Expert: Dr S N Mishra</p> <p>Designation & Organization: Senior Consultant, LEA Associates South Asia Private Limited, NEW Delhi</p> <p>Years of Exp: 13</p>	<p>7:30PM to 9:00PM</p> <p>Session 6</p> <p>Topic: Implementation of Environment, Sustainability and Governance (ESG) in thermal power sector.</p> <p>Name of the Expert: Dr Sanjaya Kumar Patnaik</p> <p>Designation & Organization: General Manager (Env & TQM), NALCO, Angul</p> <p>Years of Exp: 34</p>	<p>7:30PM to 9:00PM</p> <p>Session 8</p> <p>Topic: Abundance and Characterization of Microplastics in Different Water Matrices and Their Removal from Wastewater Systems by Sustainable Tertiary Treatment Techniques</p> <p>Name of the Expert: Dr Subrata Hait</p> <p>Designation & Organization: Associate Professor, IIT Patna</p> <p>Years of Exp: 15</p>	<p>7:30PM to 9:00PM</p> <p>Session 10</p> <p>Topic: Sustainable Business Practices and Climate Action (Decarbonisation)</p> <p>Name of the Expert: Mr Gokul Pandian</p> <p>Designation & Organization: Director, EY India, New Delhi</p> <p>Years of Exp: 19</p>	<p>3:30PM to 5:00PM</p> <p>Session 12</p> <p>Topic: Earthworms for the conversion of wastes to valuable resources</p> <p>Name of the Expert: Dr Puspendu Bhunia</p> <p>Designation & Organization: Professor, IIT Bhubaneswar</p> <p>Years of Exp: 16</p>

8:00PM to 9:30PM Session 2 Topic: Air and Water Pollution: Mitigation measures and sustainable Development Name of the Expert: Dr Rakesh Roshan Dash Designation & Organization: Professor, VSSUT Burla Years of Exp: 17					5:00PM to 6:30PM Session 13 Topic: Use of sensors and AI (SensAI) in monitoring pollution and biodiversity Name of the Expert: Dr Amit Kumar Mishra Designation & Organization: Professor, Aberystwyth University, UK Years of Exp: 20
					6:30PM to 7:30PM Online test & feedback
					7:30PM to 8:00PM Valedictory Session

List of Resource persons (Industry expert@50%=7 nos + Faculty 6 nos include 1 nos overseas expert industry and 1 nos overseas expert faculty)

Sl No	Name	Designation	Organisation	Experience (Years)	Remarks
1	Dr Amit Kumar Mishra	Professor	Aberystwyth University, UK	20	Overseas/Faculty
2	Dr Sridhara Nayak	Chief Scientist	Japan Meteorological Corporation, Japan	11	Overseas/Industry
3	Mr Shirish Garud	Consultant	TERI-The Energy and Resources Institute, New Delhi	32	Industry
4	Dr S N Mishra	Senior Consultant	LEA Associates South Asia Private Limited, New Delhi	13	Industry
5	Dr Sanjaya Kumar Patnaik	General Manager (Env & TQM)	National Aluminium Company Limited (NALCO), Angul	34	Industry
6	Dr Mrutyunjaya Mohapatra	Director General	India Meteorological Department, New Delhi	35	Industry
7	Dr Manorama Mohanty	Director	Meteorological Centre, Bhubaneswar	21	Industry
8	Mr Gokul Pandian	Director	EY India, New Delhi	19	Industry
9	Dr Brajesh Kumar Dubey	Professor	IIT Kharagpur	18	Faculty
10	Dr Puspendu Bhunia	Professor	IIT Bhubaneswar	16	Faculty
11	Dr Umesh Mishra	Professor	NIT Agartala	32	Faculty
12	Dr Subrata Hait	Associate Professor	IIT Patna	15	Faculty
13	Dr Rakesh Roshan Dash	Professor	VSSUT Burla, Odisha	17	Faculty

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