WHO CAN APPLY

Faculty members/ PG students/ Research scholars from Engineering Colleges and practicing engineers from industry are eligible to apply for the course. No registration fee is charged for the participants. Eligible participants will be selected on the basis of first come first served. On completion of the course, an objective assessment will be done and certificates will be awarded to successful participants by ATAL academy.

GUIDELINES

Faculty Development Program comprises of 13 sessions.

Timing will be from 6:00 pm to 9:00 pm. The FDP will be conducted in the online mode with two sessions per day.

On the last day of the course, there will be an objective assessment test. Digital certificate by ATAL Academy will be awarded to participants who have an attendance of more than 80% and score more than 60% in the test.

HOW TO APPLY?

There is no registration fee.
All participants are requested register using the

link of AICTE ATAL portal:

https://atalacademy.aicte-india.org/signup

Find this FDP under Workshops. The following filters may be applied:
Select state> Odisha
Select month> February
Select thrust area> Manufacturing & Industry 4.0

PATRON

Dr. Satyabrata MohantaDirector

<u>I.G.I.T Sarana</u>

CHAIRMAN

Dr. Blbhuti Bhusan ChoudhuryProfessor & Head, Department of Mech. Engg

ORGANISING COMMITTEE

Dr. Sudhakar Majhi Dr. Manoj Kumar Muni Mrs. July Randhari Mrs. Krushnashree S.S. Sahoo Mr. Somya Ranjan Pradhan

COORDINATOR

Dr. Supriya Sahu,

Asst. Professor, Mechanical Engg. Dept Email: supriya.sahu@igitsarang.ac.in Mob: 9556819820

CO-COORDINATOR

Mrs. Babita Singh,

Asst. Professor, Mechanical Engg. Dept Email: babitasingh@igitsarang.ac.in Mob: 7325950754 AICTE Training and Learning
Sponsored One Week
(ONLINE)
Faculty Development Program
(ATAL_n-FDP)

Sustainable Manufacturing and Advanced Automation in Industries





(Dt. 24.02.2025 to 01.03.2025)

Organized by Department of Mechanical Engg.



Indira Gandhi Institute of Technology (An Autonomous Institute of Govt. of Odisha) Sarang, Dhenkanal Odisha - 759146



ABOUT THE INSTITUTE

Indira Gandhi Institute of Technology (IGIT), Sarang was established in the year of 1982 and was managed directly by the Govt. of Odisha in the name of Odisha College of Engineering (OCE). Prior to this, since 1981, the institute in the name of Modern Polytechnic (MPT) was offering Diploma Courses in Civil, Electrical, Mechanical, Mining Survey Engineering. In the year 1987, both OCE & MPT were merged and renamed as IGIT, Sarang and the management was transferred to an Autonomous Society.

Presently, the Institute is offering nine Under Graduate Engineering courses in Civil, Chemical, Electrical, Mechanical, Metallurgical, Electronics & Telecommunication, Computer Science Engg., Production Engg., & two part-time Post GraduateEngg courses in Industrial Power Control & Drives, Environmental Sc. & Engg.; nine full time Post Graduate Engg courses / Master courseComputer Sc.Engg., Electronics and Telecom. Engg, GeotechEngg., Mechanical System Design, Mett. & Materials Engg., Power Electronics & Drives, Power System Engg., Production Engg., Structural Engg., Master in Computer Application.

ABOUT THE DEPARTMENT

B.Tech programme in Mechanical Engineering was introduced in the Institution in 1982. Since its inception, the Department of Mechanical Engineering is actively engaged in grooming a large pool of students into well trained engineers. The department has well equipped labs and highly qualified faculty and staff. The department keeps pace with the advances in technology by engaging in research and consultancy works in the various fields of Mechanical Engineering.

BROAD OBJECTIVES

Organizing a Faculty Development Program (FDP) on Sustainable Manufacturing and Advanced Automation in Industries aims to equip educators, researchers, and industry professionals with the latest knowledge and skills needed to foster innovation and sustainability in manufacturing processes. Key objectives of the FDP include:

- To promote Sustainable Manufacturing Practices
- To familiarize Participants with Advanced Automation
- To bridge Academia-Industry Collaboration
- To encourage interdisciplinary research and development of innovative solutions to industrial challenges.
- To encourage faculty members for the development of specialized courses or modules focused on these emerging areas.
- To discuss real-world challenges industries face in adopting sustainable practices and automation.

TOPICS COVERED IN FDP

- Reverse supply chain, industrial engineering and robotics
- Stress analysis, composite materials, thermal spray coating and tribology
- Condition monitoring and reliability
- Free space optics, fiber optic communication, IsOWC system, non-linear optics and digital communication
- Thermal and fluid engineering, industrial boilers and fired furnaces, bio-mechanics and robotics
- Product development, IPR development, destructive and nondestructive testing of mining and allied equipment
- Composite materials, tribology, modelling and simulation, biomaterials and metal casting
- Mechanical properties, mechanical behavior of materials and failure analysis
- Process engineering, modeling, simulation, optimization and hysis
- Six Sigma, SAP products and supply chain management
- Design, development, aerodynamic applications
- IT strategy, solution architecture, requirement analysis, software project management, cyber security and global delivery

RESOURCE PERSON OF THE FDP

- ◆ Dr. Rabindra Narayan Mahapatra Professor & HOD, Dept. of Production Engineering, NIT Agartala
- ◆ Dr. Alok Satapathy Professor, Mechanical Engineering NIT Rourkela,
- ◆ Dr. Chinmaya Kar Condition Monitoring and Reliability Professional, Honeywell, Abu Dhabi, United Arab Emirates
- ◆ Dr. Ha Huy Cuong Nguyen Director SDC - Software Development Centre -Danang University Da Nang City, Vietnam
- ◆ Dr. Bijayananda Patnaik Associate Professor, Electronics & Telecom. Engineering, NIT Raipur
- ◆ Dr. Harish Chandra Das Professor, Mechanical Engg, NIT Meghalaya
- ◆ Dr. Sudhir Kumar Kashyap Senior Principal Scientist & HOS Roof Support Testing Laboratory, CSIR - Central Institute of Mining & Fuel Research, Barwa Road, Dhanbad
- ◆ Dr. Amar Patnaik Associate Professor, Department of Mechanical Engineering, MNIT, Jaipur
- ★ Mr. Sunand Rakshit General Manager Maintenance Jindal Steel & Power Ltd., Angul, Odisha
- Mr. Balakrushna Sahu
 DGM Process L&T
 Hydrocarbon Engineering Limited
- ★ Mr. Satyajeet Pattnaik Managing Director Accenture
- ★ Mr. Satya Swaroop Panda Director, Engineering Collins Aerospace
- Mr. Srikanta Mohapatra Delivery Head (Cloud Services and Digital Transformation) Tata Consultancy Services Limited

ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

FDP Thrust Area: Manufacturing & Industry 4.0

FDP Title: Sustainable Manufacturing and Advanced automation in Industries

Start Date:24.02.2025

End Date:

Start Date: End Date:					
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00PM to 6:30PM	6:00PM to 7:30PM	6:00PM to 7:30PM	6:00PM to 7:30PM	6:00PM to 7:30PM	2:00PM to 3:30PM
Inaugural Session	Session 3	Session 5	Session 7	Session 9	Session 11
	Topic: Condition monitoring and reliability Name of the Expert: Dr. Chinmaya Kar Designation & Organization: Condition Monitoring and Reliability Professional, Honeywell, Abu Dhabi, United Arab Emirates Years of Exp:18	Topic: Free space optics, fiber optic communication, IsOWC System, Non-linear optics and Digital communication Name of the Expert: Dr. Bijayananda Patnaik Designation & Organization: Associate Professor, Electronics & Telecom. Engineering, National Institute of Technology, Raipur Years of Exp:17	Topic: Product development, IPR development, Destructive and nondestructive testing of mining and allied equipment Name of the Expert: Dr. Sudhir Kumar Kashyap Designation & Organization: Senior Principal Scientist & HOS Roof Support Testing Laboratory, CSIR - Central Institute of Mining & Fuel Research Barwa Road, Dhanbad Years of Exp: 34	Topic: Mechanical properties, mechanical behavior of materials and failure analysis Name of the Expert: Mr. Sunand Rakshit Designation & Organization: General Manager Maintenance Jindal Steel & Power Ltd., Angul, Odisha Years of Exp:31	Topic: Six Sigma, SAP products and Supply chain management Name of the Expert: Mr. Satyajeet Pattnaik Designation & Organization: Managing Director Accenture Years of Exp:30
6:30PM to 8:00PM	7:30PM to 9:00PM	7:30PM to 9:00PM	7:30PM to 9:00PM	7:30PM to 9:00PM	3:30PM to 5:00PM
Session 1	Session 4	Session 6	Session 8	Session 10	Session 12
Topic: Reverse supply chain , industrial engineering and Robotics Name of the Expert: Dr. Rabindra Narayan Mahapatra Designation & Organization: Professor & HOD, Dept. of Production Engineering, National Institute of Technology Agartala Years of Exp: 34	Topic: Condition monitoring Name of the Expert: Dr. Ha Huy Cuong Nguyen Designation & Organization: Director SDC - Software Development Centre - Danang University · Da Nang City, Vietnam Years of Exp: 25	Topic: Thermal and fluid engineering, Industrial boilers and fired furnaces, Biomechanics and Robotics Name of the Expert: Dr. Harish Chandra Das Designation & Organization: Professor, Mechanical Engg., National Institute of Technology, Meghalaya Years of Exp.30	Topic: Composite materials, Tribology, Modelling and simulation, Biomaterials and Metal casting Name of the Expert: Dr. Amar Patnaik Designation & Organization: Associate Professor, Department of Mechanical Engineering, MNIT, Jaipur Years of Exp:24	Topic: Process engineering, modeling, simulation, optimization and Hysis Name of the Expert: Mr. Balakrushna Sahu Designation & Organization: DGM Process L&T Hydrocarbon Engineering Limited Years of Exp:18	Topic: Design, Development, aerodynamic applications Name of the Expert: Mr. Satya Swaroop Panda Designation & Organization: Director, Engineering Collins Aerospace Years of Exp:29
8:00PM to 9:30PM		regnardy Tears of Exp.30	Tears of Exp.21		5:00PM to 7:30PM
Session 2					Session 13
Topic: Stress analysis, composite materials, thermal spray coating &Tribology Stress analysis, composite materials, thermal spray coating &Tribology					Topic: IT strategy, solution architecture, Requirement analysis, Software project management, Cyber security and global delivery
Name of the Expert: Dr. Alok Satapathy Designation & Organization:Professor, Mechanical Engineering National Institute					Name of the Expert: Mr. Srikanta Mohapatra
of Technology Rourkela, Odisha, India Years of Exp:31					Designation & Organization: Delivery Head (Cloud Services and Digital Transformation) Tata Consultancy Services Limited
					Years of Exp:29
					6:30PM to 7:30PM Online test & feedback 7:30PM to 8:00PM
					Valedictory Session

Letter Head

Subject: NOC for Attending ATAL FDP

Ref No	Date:
То	Whomsoever It May Concern
This letter is to express 1	No Objection on Mr./Mrs./Ms./Dr. <participant name="">in</participant>
attending ATAL Online 6	Days Faculty Development Programme on "Sustainable
Manufacturing and Adv	vanced Automation in Industries" organized by IGIT
Sarang, from February 24 th Fe	ebruary to 01 st March, 2025.
This certificate is issued as p	per requirement of AICTE for successful conduction of ATAL
	Yours Sincerely,
	(Sign & Stamp)
	[Head of the Institution/Competent Authority]

Institute Name and Address