



A VISION TOWARDS SUSTAINABLE DEVELOPMENT IN ADDITIVE MANUFACTURING

ONLINE FACULTY DEVELOPMENT PROGRAM



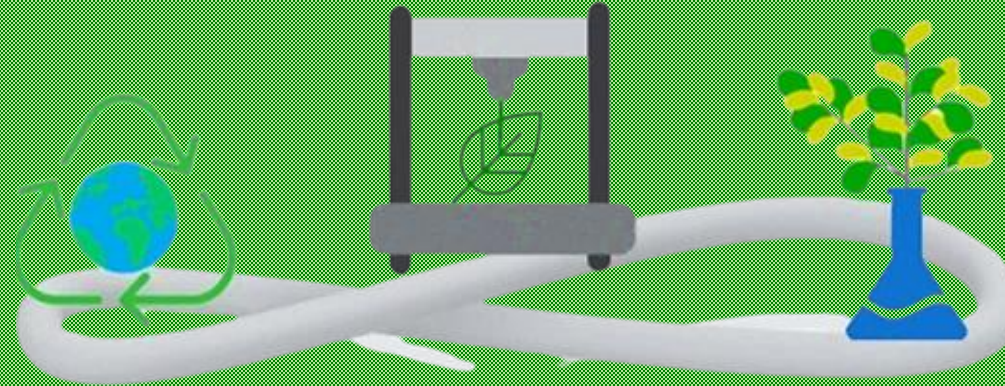
Organized by

Department of Mechanical
Engineering
NATIONAL INSTITUTE OF
TECHNOLOGY AGARTALA

Sponsored By:

AICTE Training and Learning
Academy(ATAL)

**No Charge for Registration,
Course and Certification**



COORDINATORS



Dr. Subrata Kr Ghosh
Associate Professor,
Total 15+ Years of Exp



Dr. Ravivarman R
Assistant Professor, ME
Total 10+ Years of Exp

Six Days
17th To 22nd November, 2025

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varman92@gmail.com

REGISTRATION LINK



ABOUT NIT AGARTALA

Established in 1965 as Tripura Engineering College. Later, the Government of India converted the Tripura Engineering College to National Institute of Technology Agartala on 1st April 2006. NIT Agartala is an Institute of National Importance was instituted by under the Ministry of Education, Government of India with the mission to herald excellence in technical education and research in the North-East region. NIT Agartala offers undergraduate, postgraduate, and doctoral programs in various fields of engineering, science, humanities, and management. The institute is renowned for its academic excellence, research initiatives, and industry collaborations. NIT Agartala boasts state-of-the-art infrastructure, well-equipped laboratories, and a conducive learning environment.



ABOUT THE DEPARTMENT

The Department of Mechanical Engineering at NIT Agartala is one of the largest and oldest Departments of the Institute that gratifies to its students with top class teaching-learning facility and state-of-the-art laboratories. The Department is continuously striving to achieve excellence in education, academic and industry-oriented research as well as consultancy work with service to the society in particular and the nation in greater extent.

ABOUT THE FDP

The Faculty Development Program (FDP) on “A Vision Towards Sustainable Development in Additive Manufacturing” aims to provide participants with comprehensive knowledge of emerging trends, technologies, and sustainable practices in additive manufacturing. Through expert sessions, the FDP will highlight the role of advanced materials, eco-design, energy efficiency, and circular economy concepts in achieving sustainable growth. It also seeks to connect industry and academia to foster innovative solutions for real-world challenges in additive manufacturing.

OBJECTIVES OF THE FDP

- ❑ To provide a strong foundation on the fundamentals and advancements in additive manufacturing.
- ❑ To explore innovative material processing techniques, including Industry 4.0-driven practices.
- ❑ To emphasize sustainability aspects such as waste minimization, energy efficiency, and eco-design.
- ❑ To integrate concepts of circular economy and government policies into additive manufacturing practices.
- ❑ To expose participants to case studies and industrial applications for bridging research and practice.
- ❑ To introduce bio-technology applications and mechanics-based modeling in additive manufacturing.
- ❑ To prepare participants for future industry demands by discussing Industry 5.0 and beyond in additive manufacturing.

MODE OF DELIVERY:

Online Via G Meet

WHO CAN APPLY?:

Faculty members of AICTE approved institutions, research scholars, PG Scholars, participants from Government organizations, Industry (Bureaucrats/Technicians/Industry participants), and staff of host institution.

HOW TO APPLY:

Participant registration is mandatory on the ATAL portal. Register at: <https://atalacademy.aicte.gov.in/>

REGISTRATION PROCESS:

Register and Login as Participant → Upload NOC → Choose Type: Atal, Mode: Online → Application No: 1748243734 → Apply (+).

Last date of Registration 07th November 2025

INSTRUCTIONS:

- No registration fees for participants.
- Registered participants must fill a consent form (registration approved only after receipt).
- Attendance in all sessions is mandatory with minimum of 80%.
- A test will be conducted by the coordinator at the end of program

ESTEEMED SPEAKERS

Dr. Kishore Debnath
Associate Professor,
Mechanical Eng., National
Institute of Technology
Meghalaya, 12+ Yrs of Exp



Dr. Subrata Kr Ghosh
Associate Professor,
Mechanical Eng.,
National Institute of
Technology Agartala,
15+ Yrs of Exp



Dr. Subrata Kr Panda, Professor,
Mechanical Eng.,
National Institute of
Technology Rourkela,
20+ Yrs of Exp



Dr. V. C. Padmanaban
Assistant Professor,
Bio-Eng.,
National Institute of
Technology Agartala,
13+ Yrs of Exp



Dr. Alok Kumar Das
Professor, Mechanical Eng.,,
Indian Institute of
Technology (ISM) Dhanbad,
15+ Yrs of Exp



Dr. Sendhil Kumar
Associate Professor,
Mechanical Eng.,
National Institute of
Technology Puducherry,
15+ Yrs of Exp



Mr. Prosenjit Roy
DGM, Domestic
Marketing Network,
L & T Kolkata.
15+ Yrs of Exp



Dr. Sasidharan Periane
Materials Application
Engineer, Wayland
Additive, UK,
10+ Yrs of Exp



Dr. Geethapriyan Thangamani
Research Consultant,
Politecnico di Torino,
Italy, 12+ Yrs of Exp



Dr. Gokul Dayalan
Executive Engineer
NLC India Ltd.
10+ Yrs of Exp



Dr. Haribaskar Raja
Application Engineer-
Metal AM, Liason
Engineers Pvt. Ltd.,
10+ Yrs of Exp



Mr. J Prem Anand
New Product
Development Manager
Vaya life Private Ltd.
Chennai, 10+ Yrs of Exp



Mr. Muthu Prasanth
Senior Manager Govt.
Relations & Sustainability,
Procter & Gamble, Hyderabad.
10+ Yrs of Exp

Chief Patron:

Prof. Sarat Kumar Patra Director, NIT Agartala.

Chairperson:

Prof. Tarun Kumar Misra Dean R&C, NIT Agartala

Patron:

Prof. R. S. Panua, HoD, MED, NIT Agartala

Program Co-Ordinator:

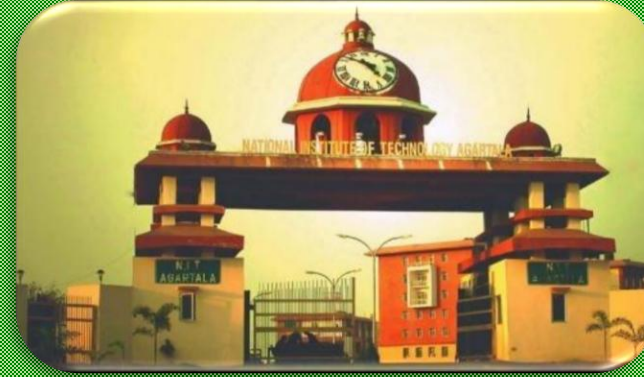
Dr. Subrata Kr Ghosh

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ORGANIZING COMMITTEE



Program Co-Coordinator:

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ATAL Online 6-Day Faculty Development Programmes 2025-26 Schedule

FDP Thrust Area: Manufacturing & Industry 4.0

FDP Title: A vision towards sustainable development in additive manufacturing

Start Date: 17th November 2025

End Date: 22nd November 2025

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00 PM to 6:30 PM Session 1	6:00PM to 7:30PM Session 3	6:00PM to 7:30PM Session 5	6:00PM to 7:30PM Session 7	6:00PM to 7:30PM Session 9	2:00PM to 3:30PM Session 11
Inaugural Session	Waste Minimization using Additive Manufacturing (3D Printing) Dr. Sasidharan Periane Materials Application Engineer, Wayland Additive, Huddersfield, United Kingdom More than 10 Years of Experience	Case Studies in Additive Manufacturing: Industries 4.0 Mr. Prosenjit Roy Deputy General Manager, Domestic Marketing Network Kolkata, Larsen & Toubro Kolkata More than 15 Years of Experience	Environmental Sustainability in Additive Manufacturing Dr. Gokul Dayalan Executive Engineer (Environment) NLC India Ltd, Neyveli. More than 10 Years of Experience	Eco-Design in Sustainable Product Development Mr. J Prem Anand New Product Development Manager, Vaya life Private Ltd, Chennai. More than 10 Years of Experience	Energy Consumption in Additive Manufacturing Dr. Sendhil Kumar , Associate Professor, Mechanical Eng., National Institute of Technology Puducherry More than 10 Years of Experience
6:30PM to 8:00PM Session 1	7:30PM to 9:00PM Session 4	7:30PM to 9:00PM Session 6	7:30PM to 9:00PM Session 8	7:30PM to 9:00PM Session 10	3:30PM to 5:00PM Session 12
Introduction to Additive Manufacturing Dr. Subrata Kumar Ghosh Associate Professor, Mechanical Eng., National Institute of Technology Agartala More than 15 Years of Experience	Ceramic Material Processing in Additive Manufacturing: Industry 4.0 Dr. Geethapriyan Thangamani Research Consultant, Politecnico di Torino, Italy More than 10 Years of Experience	Additive Manufacturing: Mechanics-Based Modelling of Polymeric Components Dr. Subrata Kumar Panda Professor, Mechanical Eng., National Institute of Technology Rourkela More than 20 Years of Experience	Additive Manufacturing in Bio Technology Dr. V. C. Padmanaban Assistant Professor, Bio-Eng., National Institute of Technology Agartala More than 13 Years of Experience	Sustainability in Industries: Government Relations Mr. Muthu Prasanth Senior Manager Govt. Relations & Sustainability, Procter & Gamble Hyderabad, Telangana, India More than 10 Years of Experience	Metal Additive-Recent Advancements Dr. Haribaskar Raja Application Engineer- Metal AM, Liason Engineers Pvt. Ltd.,
8:00 PM to 9:30 PM Session 2	<i>"No Charge for Registration, Course and Certification"</i>				5:00PM to 7:30PM Session 13
Materials and Processes for Additive Manufacturing Dr. Kishore Debnath Associate Professor, Mechanical Eng., National Institute of Technology Meghalaya. More than 12 Years of Experience					Future Trends in Additive Manufacturing: Industries 5.0 Dr. Alok Kumar Das. Professor, Mechanical Eng., Indian Institute of Technology (ISM) Dhanbad. More than 15 Years of Experience
					6:30PM to 7:30PM Online test & feedback
					7:30PM to 8:00PM
					Valedictory Session