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Director, NIT Patna

## **PATRON**

Prof. S. K. Verma  
Deputy Director, NIT Patna

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## **COORDINATOR**

Dr. Vikas Upadhyay, NIT Patna

## **CONVENER**

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Dr. Saroj K Sarangi, NIT Patna

## **ADVISORY COMMITTEE**

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Prof. A. N. Sinha, Dean (Faculty Welfare),  
Prof. Sanjeev Sinha, Dean (Academic)  
Prof. L. B. Roy, Dean (R&C)  
Prof. Fulena Rajak, Dean (P&D)

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Dr. Kuntal Maji, NIT Patna  
Dr. Vikas Chaubey, NIT Patna  
Dr. Vimal Kek, NIT Patna  
Dr. S. M. Pandey, NIT Patna  
Dr. Ambrish Maurya, NIT Patna  
Dr. Sonu Rajak, NIT Patna

## **OVERVIEW AND SCOPE OF FDP**

The environmental hazards and worker health issues in the manufacturing industry have led to increased environmental awareness and strict protection laws for occupational safety and health regulations. Green manufacturing is one of the major themes in the manufacturing sector in recent years to handle the increasing environmental issues. Green term basically represents elimination/reduction of activities causing adverse environmental effects. This FDP is designed to cover the various sustainable issues related with manufacturing to promote green technology in various engineering applications. FDP will start with the very basics of green technology and related sustainable issues. Recent developments in this area will then be discussed in detail to make them easy to understand and to enable the participants to try these techniques on their own for further research and development.

## **CONTENTS OF FDP**

- Introduction to Green Technology
- Environmental Friendly Machining
- Green Welding Techniques
- Sustainable Manufacturing
- Energy-Efficient Materials/Processes
- Green Supply Chain
- Waste Management
- Green Manufacturing Systems
- Smart Factory
- Artificial Intelligence in Green Manufacturing
- Applications of Green Technology

## **Online Faculty Development Program**

**On**

**Green Technology:  
Applications in Manufacturing  
(September 20-24, 2021)**

**Sponsored by  
AICTE Training And Learning (ATAL)  
Academy**



**Coordinator**

**Dr. Vikas Upadhyay**



**Organized by**

**Department of Mechanical Engineering  
National Institute of Technology Patna  
Ashok Rajpath, Patna - 800005**

## ABOUT NIT PATNA

National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of Human Resource Development, Government of India after rechristening the erstwhile Bihar College of Engineering, Patna. The Institute has highly qualified faculty of higher caliber in various disciplines. Institute offers B. Tech, M. Tech and Ph.D. programs in the respective field of Engineering, Sciences and Technology with well-equipped laboratories. The institute is situated on the south bank of holy river Ganges behind Gandhi Ghat, one of the most important and reverential place in Patna. The Gandhi Ghat is associated with the immersion of ashes of father of the Nation Mahatma Gandhi in the river Ganges. The campus has a picturesque river view with historic heritage building presenting a spectacle of architectural delight and natural beauty. The Institute campus is 8 km from the Patna Junction railway station and 15 km from the Jai Prakash Narayan International Airport Patna.

## DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in 1952 and the M.Tech Program was started in 1978. BCE was converted to National Institute of Technology Patna in 2004. Initially B.Tech. Program in Mechanical Engineering started with intake of 20, which has now become 120. Presently, the department is also

having Dual Degree (PG + PhD) and PhD programs.

## EXPERTS

Lectures will be delivered online by the faculty members from IITs, NITs, and other reputed institutes.

## ELIGIBILITY OF PARTICIPANT

The FDP is open to faculty members, Ph.D., PG, and UG students engaged in Engineering and Science disciplines.

## REGISTRATION

1. Registration Fee - Nil
2. The number of participants is limited to 200 (Will be selected on a first-come-first-served basis).
3. A test shall be conducted by coordinators at the end of the program.
4. The certificates shall be issued to those participants who have attended the program with a minimum of 80% attendance and scored a minimum of 60% marks in the test.

## CONTACT US

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## Online Faculty Development Program On

## Green Technology: Applications in Manufacturing (September 20-24, 2021)

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AICTE Training And Learning  
(ATAL) Academy**

## Registration Form

1. Name of applicant (in Block Letters):  
.....
2. Educational Qualification: .....
3. Designation:.....
4. Name of the Institution/industry:  
.....
5. Address for communication:  
.....  
.....  
.....
6. Email:.....
7. Phone/Mobile:.....

Date:

Signature