

## ABOUT DR.N.G.P. INSTITUTE OF TECHNOLOGY

Dr.N.G.P.Institute of Technology is another milestone in the growth of the Kovai Medical Centre Research and Educational Trust, Coimbatore. The Institution is approved by the All India Council for Technical Education (AICTE), New Delhi, affiliated to Anna University, Chennai, accredited by NBA & NAAC A+, and recognized by UGC, New Delhi. The institute is well equipped with advanced infrastructure facilities and state-of-the-art laboratories to meet the requirements prescribed by AICTE and Anna University. Dr.NGPiTech offers higher Education in Engineering, Technology, and Management as Undergraduate, Postgraduate, and Research Programmes.

## ABOUT THE DEPARTMENT

Department of Mechanical Engineering has been in existence since 2009. The Programme is accredited by NBA. The department is recognized as a Research Centre by Anna University, Chennai. The Department has evolved into a fully equipped one, boasting well-equipped lab facilities and infrastructure. The Department has well-experienced faculty members of various specializations. The activities in the department are carried out to consolidate global innovations, inventions, and alternative resource development that have been upgraded in the mechanical world to support humanity's journey. The students are trained to upgrade themselves, and the department is striving to mould them into better engineers in this society.

## IMPORTANT DATES

**Receipt of Application: 31.12.2025**

**Intimation of Selection: 02.01.2026**

## ORGANISING COMMITTEE

Chief Patron: Dr.Nalla G. Palaniswami  
Chairman and M.D,  
KMCH

Dr.Thavamani D Palaniswami  
Secretary,  
Dr. N.G.P. Institute of Technology

Mrs.Mathura V. Palaniswami  
Trustee,  
Dr. N.G.P. Research and Educational Trust

Patron: Dr.O.T.Buvaneswaran  
Chief Executive Officer  
Dr. N.G.P. Research and Educational Trust

President: Dr.S.U.Prabha  
Principal,  
Dr. N.G.P. Institute of Technology

Chair: Dr.V.S.Sree Balaji  
Dean (Industry Relations)  
Professor & Head,  
Dept. of Mechanical Engineering  
Dr. N.G.P. Institute of Technology

Coordinators: Dr.V.Karthickeyan, Associate Professor  
Mr.A.S.Manirathnam, Assistant Professor

## REGISTRATION

Participants can sign up and register for the program by using the google form link or QR code:

<https://shorturl.at/Z9tRw>



## Five Days Faculty Development Program

on

## Next-Generation Sustainable Mechanical Solutions

**5<sup>th</sup> to 9<sup>th</sup> January 2026**



Organized by

## Department of Mechanical Engineering Dr.N.G.P. Institute of Technology

(An Autonomous Institution)

Approved by AICTE, New Delhi &

Affiliated to Anna University, Chennai

Recognized by UGC & Accredited by NAAC with A+ Grade and NBA (BME, CSE, IT, ECE, EEE and Mechanical)

Kalapatti Road, Coimbatore - 641 048. Tamil Nadu.

## OBJECTIVES

Faculty Development Programme titled 'Next-Generation of Sustainable Mechanical Solutions' is to enhance participants' understanding of sustainability principles and their application in mechanical system design and development. The programme aims to strengthen participants' ability to create energy-efficient, environmentally responsible, and cost-effective mechanical solutions by integrating sustainable materials, advanced manufacturing practices, and lifecycle assessment approaches. It also seeks to foster innovative and critical thinking for addressing realworld engineering challenges, encourage interdisciplinary collaboration, and promote awareness of environmental regulations and global sustainability goals. Ultimately, the programme aspires to equip participants with the technical knowledge and practical skills required to contribute to sustainable development through responsible mechanical engineering practices.

## EXPECTED OUTCOMES

Upon completing the Faculty Development Programme titled 'Next-Generation of Sustainable Mechanical Solutions', there will be improved competency among participants in applying sustainability concepts to mechanical system design and analysis. Participants are expected to gain skills in developing energy-efficient, eco-friendly, and resource-optimized mechanical solutions using modern tools and methodologies. The programme will enable participants to adopt life-cycle thinking, comply with environmental standards, and integrate sustainable materials and manufacturing practices into their work.

Additionally, participants will be better prepared to engage in interdisciplinary collaboration, contribute to research and innovation in sustainable engineering, and effectively transfer this knowledge to teaching, industry projects, and real-world engineering applications, thereby supporting long-term environmental and societal sustainability.

## FDP CONTENTS

- Sustainable Design in Mechanical Engineering
- Green Manufacturing Technologies
- Energy-Efficient Mechanical Systems
- Life Cycle Assessment (LCA) of Mechanical Products
- Renewable Energy Systems for Mechanical Engineers
- Solar Thermal and Wind Energy Technologies
- Waste-to-Energy Conversion Techniques
- Hybrid and Electric Vehicle Technologies

## TARGET PARTICIPANTS

Faculty members from AICTE approved institutions, Research Scholars, Industry personnel, and PG students, Participants from Government, Industry Bureaucrats/ Technicians/ Professionals.

**No Registration fees**

## RESOURCE PERSONS

Eminent Speakers from



## ATTENDANCE

**Minimum 80% attendance is mandatory**



### Further details contact:

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