

One Week online
Faculty Development Programme
on
**“Emerging Trends in Advanced
Materials, Manufacturing,
Characterization, and AI-Driven
Materials Engineering”**

Date: 19.10.2026 to 23.10.2026
Time 6.00 PM to 8.00 PM

Registration Form

Faculty Name:

Designation:

Department:

College Name:

Address:

E-Mail:

Mobile No.:

Area of Interest:

Total Teaching Experience: Years

Faculty ID:

Aadhaar No.:

Signature

Organizing Committee

Chief Patron

Shri B. Prative Chend

Chief Executive Officer

CARE Group of Institutions

Patron

Dr.S.Shanthi

Principal

CARE College of Engineering

Trichy, Tamil Nadu.

Conveners

Dr.K. Kannan

Professor, Dean (Academics)

FDP Coordinator

Prof. D. R. Rajkumar,

Head, Department of Mechanical Engineering,

CARE College of Engineering

FDP Co-coordinator

Mr.G.Rakesh,

Asst. Professor, Department of Mechanical

Engineering

CARE College of Engineering

Contact

The Co-coordinator,

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Organized by

Department of Mechanical Engineering

About the College

CARE College of Engineering is an autonomous institution approved by AICTE, New Delhi and affiliated to Anna University, Chennai. CARE College of Engineering offers application oriented engineering courses with hands on training in one of the most conducive learning environments in India. It inculcates the value of life beyond curriculum and explores the full potential of the students. With the state-of-the art facilities and highly experienced and trained faculty members, our focus is on academics as well as holistic development of the students. CARE believes that the most promising opportunities for discovery exist at the intersections of disciplines, and that the technologies of the next century will grow out of multidisciplinary partnerships. CARE is committed to excellence in all its endeavours. Similarly, the leaders of tomorrow must be able to bridge multiple interests. Our teaching pedagogy ensures that students get exposed to a holistic approach to education, integrating physical, emotional and social development of our students.

Objective of the FDP

- To explore recent developments in advanced materials, characterization techniques, additive manufacturing, and advanced machining processes.
- To understand process–structure–property relationships and the challenges associated with advanced and metal additive manufacturing.
- To introduce AI-driven approaches for materials engineering, process optimization, research, and innovative applications

At the end of the programme, participants will be able to:

- Understand recent developments in advanced materials, material characterization techniques, additive manufacturing, and advanced machining processes.
- Explain the relationship between processing, microstructure, and material properties in advanced and additively manufactured materials.
- Identify key challenges and limitations associated with advanced materials and metal additive manufacturing processes.

Resource Persons

1. Dr. C.Devanathan, Asso. Professor, REC , Chennai.
2. Dr.K.Santhy , Asso.Professor Indus University, Ahmedabad.
3. Dr.V.Anandakrishnan, Professor , NIT, Trichy
4. Dr. Ramesh, Professor, DS University, Trichy.
5. Dr.A.Adinarayanan, Professor, AMET University, Chennai.

Topics Covered

- Advanced materials
- Advanced material characterization
- Challenges in metal additive manufacturing
- Advanced machining process
- AI driven Process , structure , property and Engineering materials

Registration Fee:

Rs 199/-

Payment can be made through



Registration link

<https://forms.gle/QK2mU75zHdGfC6nM6>

Participants Guidelines

- ❖ Participants are kindly requested to complete their registration on or before **17-09-2026**.
- ❖ Participants are requested to maintain **75% attendance** to be eligible for receiving the FDP certificate
- ❖ The certificate will be issued within three days after the successful completion of the FDP.
- ❖ The **Google Meet link** will be shared with the registered participants on **18-09-2026**. Participants are kindly requested to use the link for joining the FDP sessions and **not to share it with others**.

----- **ALL THE BEST** -----