



## **Department of Mechanical Engineering**

**(Sri Sivasubramaniya Nadar (SSN) College of Engineering)**

Rajiv Gandhi Salai (OMR), Kalavakkam - 603 110, Tamil Nadu, India

IN ASSOCIATION WITH



PRESENTS

**A FIVE DAYS FACULTY DEVELOPMENT PROGRAM**

**ADVANCED MATERIALS AND  
MANUFACTURING (HYBRID MODE)**

***17 – 21 Feb. 2025***





## ABOUT THE INSTITUTION

SSN Institutions, established by Shiv Nadar, Founder and Chairman Emeritus, HCL Technologies, stand out as a premier centre of higher learning with a mission of pursuing excellence in education and research. The institutions are named after the Chairman's father, Sri Sivasubramaniya Nadar. With their diverse and dynamic community of students, SSN offers a distinctive combination of some of the finest undergraduate, postgraduate and research programs, accomplished faculty, world-class facilities and a residential campus set on a sprawling 230 acres of sylvan surroundings.

SSN has been accredited by NAAC with an A++ Grade and all eligible programs have been accredited by NBA. The institution has consistently stood top among engineering colleges affiliated to Anna University, Chennai. The college is ranked 45th in Engineering Category in India Rankings 2023 listed by NIRF, MHRD. The management awards over 600 scholarships worth Rs 43 crores every year to meritorious and deserving students. The college has Wi-Fi connectivity, e-learning enabled classrooms and state of the art laboratories.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in the year 2007. The department offers B.E (Mechanical Engineering) from the academic year 2007 – 2008, M.E (Manufacturing Engineering) from the academic year 2012 – 2013 and M.E (Energy Engineering) from the academic year 2013 – 2014. The department became an approved research centre of Anna University in the year 2012. The department has highly qualified and experienced faculty members; all with Ph.D. degree. The department has state-of-the art facilities for various laboratories, department library and classrooms to support e-learning.

The department has a well-equipped centralized workshop facility which caters to the needs of various departments. We strive for all round excellence in students, encouraging them in all extracurricular activities. The department has research projects funded by DST, AICTE, DRDO, SERB and NRB to the tune of around Rs.5.16 Crores for conducting research in various fields.

## ABOUT THE FDP

The Faculty Development Program on Advanced Materials and Manufacturing delves into emerging and novel materials including nanomaterials, biomaterials, and smart materials, among others. By leveraging interdisciplinary perspectives and industry partnerships, the program empowers faculty members to integrate the latest advancements in materials science into their teaching, research, and mentorship activities. Emphasizing sustainability, scalability, and adaptability, this forward-looking initiative equips educators with the tools and strategies needed to inspire the next generation of materials scientists and engineers.

## OBJECTIVES OF THE FDP

The "Advanced Materials and Manufacturing" FDP aims to:

- Elevate the expertise of participating faculty members by immersing them in the latest advancements in materials science.
- Cultivate a dynamic learning environment that integrates innovative teaching methodologies, ensuring an engaging educational experience for students.
- Foster interdisciplinary collaboration, encouraging faculty to engage in cutting-edge research projects and share knowledge across disciplines.

## CHIEF PATRON

Dr. Shiv Nadar, Founder, SSN Institutions

## PATRON

Dr. Kala Vijayakumar, President, SSN Institutions

## GENERAL CHAIRS

Dr. S. Radha, Principal, SSNCE

Dr. P. Ramasamy, Dean (Research), SSNCE

## CONVENER

Dr. K. S. Vijay Sekar, Prof. & Head, Mechanical, SSNCE

## CO-ORDINATORS

Dr. Santosh Sampath, Mechanical, SSNCE

Dr. S. A. Srinivasan, Mechanical, SSNCE

Dr. D. Ananthapadmanaban, Mechanical, SSNCE



## TARGET AUDIENCE AND REGISTRATION:

- Faculty members,
- Research scholars (Ph.D/M.E/M.Tech),
- Professionals from Industry and R&D.



*Registration Link:*

<https://forms.gle/U83L6MVKXH3TyWq3A>

*(There is no registration fee)*

## TOPICS COVERED (NOT LIMITED TO)

- Nanotechnology and Nanomaterials,
- Advanced Composite Materials,
- Smart Materials and Structures,
- Additive manufacturing
- Biocompatible Materials,
- Energy Harvesting Materials,
- Materials Informatics and Modeling,

To be delivered by eminent speakers from IIT's, Industry, R&D labs and other prominent institutions.