

Six Days FDP

on

Structural Health Monitoring

24th - 29th, Nov, 2025

Organized by

Department of Civil Engineering



Sri Sivasubramaniya Nadar College of Engineering

Kalavakkam, Chennai – 603 110 Tamilnadu, India.

Convener

Dr. N. Sivakumar

Professor and Head,
Department of Civil Engineering,
SSNCE



Coordinator

Dr.P. Sangeetha

Associate Professor,
Department of Civil Engineering,
SSNCE



Assistant Coordinator

Dr. Radhika V

Assistant Professor,
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ABOUT THE INSTITUTE

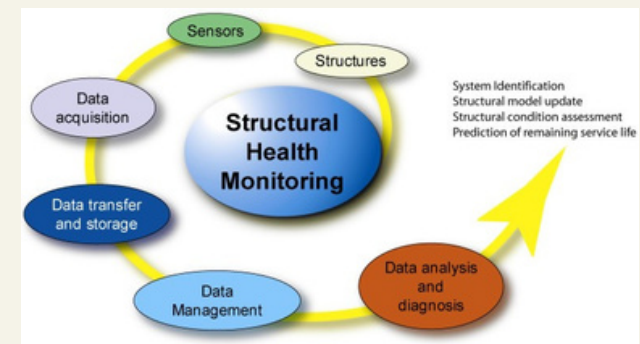
SSN Institutions, established by Shiv Nadar, Founder and Chairman Emeritus, HCL Technologies, stand out as a premier centre of higher learning with a mission of pursuing excellence in education and research. SSN offers a distinctive combination of some of the finest undergraduate, postgraduate and research 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 ranked 46th in Engineering Category in India Rankings 2024 listed by NIRF, MHRD. The college has Wi-Fi connectivity, e-learning enabled classrooms and state of the art laboratories (Visit: <https://www.ssn.edu.in/>)

ABOUT THE DEPARTMENT

The Department of Civil Engineering was started in the academic year 2011-12 with an aim of promoting high quality education in the field of Civil Engineering. The department has well equipped laboratory facilities and highly qualified faculty members having rich experience in teaching and industrial background. The department is aiming to transform itself into a centre of excellence both in academics and research.

ABOUT THE FDP

The Faculty Development Programme aims to equip participants with the latest advancements in Structural Health Monitoring (SHM) through the integration of smart materials and sensor technologies. With a balanced focus on Civil and ECE domains, the program offers comprehensive insights into damage detection and real-time infrastructure monitoring. Topics include fiber optic sensors, piezoelectric materials, wireless sensor networks, and IoT applications. Participants will also explore UAV based inspections and AI-driven data analysis. Emphasis will be placed on practical implementation through case studies and hands-on sessions. The FDP encourages interdisciplinary collaboration and innovation in structural safety. It is ideal for faculty involved in teaching, research, or the development of smart infrastructure solutions.



SCHEDULE

DAY 1: Monday - 24.11.2025



- **FN:** Dr. Lakshmi K
Senior Principal Scientist
CSIR-SERC,
Chennai



- **AN:** Dr. Ramanjaneyulu
Karusala, Professor, Dept of
Civil Engineering, SSNCE

DAY 2: Tuesday - 25.11.2025



- **FN:** Mr. Dharanipathy S.
Sr. Chief Engineering
Manager, L&T
Construction, Chennai.



- **AN:** Dr. P. Kaythry
Associate Professor,
Dept of ECE, SSNCE

DAY 3: WEDNESDAY - 26.11.2025



- **FN:** Dr. Keerthana
Kirupakaran, Assistant
Professor, Department
of Civil Engineering, IIT
Madras
- **AN:** 5G Use case lab
Visit for SHM

DAY 4: THURSDAY - 27.11.2025



- **FN & AN:** Dr. Raju, Sr.
Chief Engineering Manager
Geotechnical Department
of EDRC, L&T
Construction, Chennai.
(Visit to SHM site)

DAY 5: FRIDAY - 28.11.2025



- **FN:** Dr. Vasugi V
Professor and Dean
School of Civil Engineering
VIT Chennai



- **AN:** Dr. R. Hemalatha
Associate Professor,
Dept of ECE, SSNCE

DAY 6: SATURDAY - 29.11.2025



- **FN:** Dr. Prabha Mohandoss
Assistant Professor
Dept of Civil Engineering
NIT Trichy

- **AN:** Feedback Session

LEARNING OUTCOMES

- Gain interdisciplinary knowledge on smart materials, sensor technologies, and their application in Structural Health Monitoring of civil infrastructure
- Develop skills to design, analyse, and implement SHM systems using advanced sensing, data acquisition, and IoT-based solutions for real-time monitoring and damage detection

PARTICIPANT ELIGIBILITY

- Post graduate students
- Research scholars
- Faculty members
- Industry Professionals

REGISTRATION

- **Registration link**
<https://forms.gle/2F3s2kgKsHgLvH62A>
- **Payment link**
<https://rzp.io/rzp/sixday.fdp>

CONTACT

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