



Faculty Development Program

on

Artificial Intelligence and Smart Technologies for Sustainable Civil Engineering

2nd – 6th, November 2026

Organized by

Department of Civil Engineering

Sri Sivasubramaniya Nadar College of Engineering Kalavakkam,

Chennai –603110 Tamilnadu,India.

In Collaboration with

INSTITUTION OF CIVIL ENGINEERS (UK)

Chennai.

Convenor

Dr.N. Sivakumar

Professor and Head

Dept.of Civil Engineering,SSNCE

Coordinator

Dr. Preethi V

Assistant Professor

Dept.of Civil Engineering,SSNCE

Co - Coordinator

Dr.P. Sangeetha

Associate Professor

Dept.of Civil Engineering,SSNCE



ABOUT THE INSTITUTE

SSN Institutions, established by Shri 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 the Engineering Category in India Rankings 2025, listed by NIRF, MHRD. The college has Wi-Fi connectivity, e learning enabled class rooms and state-of -the-art Laboratories

(Visit: <https://www.ssn.edu.in/>)

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering was started in the academic year 2011-12 to promote 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 backgrounds.

The department is aiming to transform itself into a centre of excellence both in academics and research. The department provides the right kind of environment for the students to groom themselves for an innovative and challenging future. The department regularly organises seminars, guest-lectures, workshops, faculty development program and conferences for the benefit of students and scholars. At the outset, the department is active in industrial collaboration and with sustainable & societal research.

ABOUT THE TRAINING PROGRAM

The Training Program on Artificial Intelligence and Smart Technologies for Sustainable Civil Engineering is designed to provide participants with insights into emerging technologies, innovative materials, and sustainable engineering solutions using Artificial Intelligence for addressing environmental and climate-related challenges. It brings together academicians, researchers, industry experts, and students to discuss recent advancements in renewable energy, sustainable construction, and resilient infrastructure systems. The workshop also promotes interdisciplinary learning and technical knowledge dissemination in the field of Civil Engineering.



REGISTRATION

<https://forms.gle/XykyFZfBEtjvB3fd7>

NO REGISTRATION FEES

ABOUT THE PROGRAM

Day 1 :

Session 1 : Machine learning for Sustainable Infrastructure



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

Session 2 : Predicting Compressive Strength of Sea Shell Aggregate Concrete using XGBoost Regression



Dr. Daniel Cruze
Senior Lecturer in the School of Civil
Engineering at Universiti Sains,
Malaysia.

Day 2 :

Session 3 : AI for Infrastructure



Dr. Shimol Philip
Assistant Professor,
Civil Engineering,
Rajiv Gandhi Institute of Technology,
Kerala,India.

Session 4 : BIM



Mrs. Sandya Devarajan
Top voice in BIM & AEC,
Lupiter Technologies LLP Managing
Partner -BIM Services & Training.
Chennai

Day 3 :

Session 5 : AI tools for Geoenvironment



Dr. Jijo James
Assistant Professor
Anna University, Chennai.

Session 6 : Hands on training on GIS and Drone applications



Mr. A. Selvam,
Managing Director,
Land coordinate technology,
Chennai.

Day 4 :

Session 7 : Climate Risk Assessment



Dr. Kurian Joseph
Centre for Water Management
and Policy,
IIT Madras, Chennai.

Session 8 : Hands on training on AI applications in Air Quality Management.



Dr. M.R. Ezhilkumar
Assistant Professor (St.Gr),
Department of Civil Engineering,
PSG institute of Technology and
Applied Research - Neelambur,
Coimbatore.

Day 5 :

Session 9 : Hands on Tekla



Mr. Soundararajan A - Head ,
along with
Mr. Velmurugan U - Manager ,
Engineering Division,
Structural Design & Engineering,
Eversendai Construction Private
Limited, Chennai.

Session 10 : Hands on session on Hybrid Physics & Machine learning for weather forecasting.



Mr. Ajith Kumar,
Climate Activist, Decoding
Weather Blogger

LEARNING OUTCOME

Participants will understand key challenges and solutions in sustainability, energy, and climate-resilient engineering. They will gain knowledge of green technologies and resource-efficient infrastructure practices. The workshop will enhance their ability to apply sustainability principles in engineering decisions. It will also strengthen research, innovation, and problem-solving skills.

PARTICIPATION ELIGIBILITY

- Postgraduate students
- Research scholars
- Faculty members
- Industry professionals

CONTACT



+91 98409 73100



preethiv@ssn.edu.in



+91 9941377269



sangeethap@ssn.edu.in