ENGINEERING STAFF COLLEGE OF INDIA

Gachibowli, Hyderabad-500032, Telangana State.

ONE WEEK RESIDENTIAL DST SPONSORED TRAINING ON

Sustainable & Green Technologies for Strategic Infrastructure

for SCIENTISTS, ENGINEERS & TECHNOLOGISTS

(Sponsored under the Scheme: National Training Programme for Scientists and Technologists working in Govt. Sector under GENERAL COMPONENT by Ministry of Science & Technology, Govt of India)

DATE : 16-20 November 2026

TIME: 09.45 Hrs

VENUE: ESCI Campus, Hyd.



For more information please write to us on fdpdiv@escihyd.org

OBJECTIVES :

- To Familiarize participants with emerging green technologies, sustainable engineering practices, and environmentally responsible infrastructure development.
- To Develop an understanding of solar, wind, hybrid energy systems, energy storage technologies, and their applications in critical infrastructure.
- To Introduce energy-efficient buildings, green construction materials, smart infrastructure, and sustainable urban development practices.
- To Build competencies in water conservation, wastewater recycling, waste-to-resource technologies, circular economy principles, and sustainable resource management.
- To Explore applications of Artificial Intelligence (AI), Internet of Things (IoT), Digital Twins, Geographic Information Systems (GIS), and smart monitoring technologies for sustainable infrastructure management.
- To Equip participants with approaches to climate risk assessment, disaster-resilient infrastructure, carbon footprint reduction, and adaptation strategies.
- Create awareness of India's Net Zero 2070 commitment, Sustainable Development Goals (SDGs), Mission LiFE, and relevant national policies promoting green growth and sustainable development.
- Enable participants to identify, evaluate, and implement cost-effective, environmentally sustainable technological solutions in their respective organizations.

CONTENT COVERAGE:

- Day 1 – Foundations of Sustainable Infrastructure & Net-Zero Transition
- Day 2 – Energy Systems & Green Technology Integration
- Day 3 – Life Cycle Assessment (LCA) for Infrastructure Projects
- Day 4 – Green Procurement, ESG & Policy Compliance
- Day 5 – Economics, Financing & Strategic Implementation
- Meditation & Yoga Stress Busters.
- Social and Technical Study Tour.

METHODOLOGY: Methodology of the programme includes training sessions with Lecture / Discussion with audio visual aid, bench marked video shows, group discussions, case studies, debates, sharing of experiences and hands on experience.

RESOURCE PERSONS: The faculty (Resource Persons) consist of experts from industry, research establishments, academician besides that from ESCI.

TARGET GROUP: Scientists /Technologists holding Scientific posts / working in scientific Ministries / Departments of Govt. of India and State Governments. Autonomous Institutions /Public Sector undertaking of Central / State Govt., Research and Development Institutions /Research Laboratory of Central / State Government, Central /State Universities / Colleges, state Science & Technology Councils.

ESCI

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Junior	0-9 years of Service in Group "A"	Scientists "B", "C" & Equivalent
Middle	09-21 years of Service in Group "A"	Scientists "D", "E", "F" & Equivalent
Senior	21 And above Service in Group "A"	Scientists "G", "H" and Equivalent

• For this particular programme, **total 25 seats exists which will be filled on first come first serve basis (02 participants are allowed from each organisation as per guidelines issued from Ministry)**

• While nominating from academicians / professors etc. kindly ensure that only those who are having PhD / M.Tech degrees and actively involved in research and development (R&D) are selected.

5) VENUE, DATES & TIMINGS

VENUE : Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachibowli, Hyderabad. 32, Telangana, India

PROGRAMME DATES: 16 to 20 November 2026

TIMINGS: 09.45 Hrs to 17.15 Hrs. **REGISTRATION: FREE REGISTRATION (DST Sponsored)**

To Register, please send duly filled in Nomination form & Biodata as prescribed by DST to our email Id: fdpdiv@escihyd.org and also register on : https://training.dst.gov.in/Registration.aspx?

CERTIFICATE: A certificate of participation will be awarded to each participant on conclusion of the programme

GENERAL INFORMATION : ESCI encourages participants to present case studies from their respective organizations.

PROGRAMME DIRECTOR / NODAL OFFICER :

Er.Sai Kishore.P, MIE, M.Tech, MBA, (Ph.D)
Nodal Officer(DST Programmes) & Head(FDP Cell).
Engineering Staff College of India
Gachibowli, Hyderabad-500 032
Mobile: 9912523285 / 7858873963.

For more information please write to us on fdpdiv@escihyd.org

Engineering Staff College Of India

Autonomous Organ Of The Institution Of Engineers (India)

Gachibowli, Hyderabad - 500032.

Faculty Development Cell

DST Sponsored One Week Residential STP On

"Quantum Computing and its Applications in Engineering"

Date:07th-11th September 2026, Venue: ESCI Campus, Hyderabad.















