



ATAL (AICTE Training And Learning) Academy

Sponsored 5 days

FACULTY DEVELOPMENT PROGRAMME

on

Avenues for Energy Conservation in Thermal Power Plants

07th - 11th February 2022



Patrons :

Dr. R. Velraj

Vice-Chancellor
Anna University, Chennai



Prof. Anil D. Sahasrabudhe

Chairman
AICTE, New Delhi



Dr. G. Ravikumar

Registrar i/c
Anna University, Chennai



Co-Ordinator:

Dr. M. Venkata Ramanan

Professor and Director
Institute for Energy Studies
Anna University, Chennai



Organising Team:

Mr. K. G. Maheswaran, M.Tech.(PhD)

Mr. A. Shyam, M.E.(PhD)

Institute for Energy Studies
Anna University, Chennai



Organized by



Institute for Energy Studies

Anna University

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About Anna University

College of Engineering, Guindy (CEG), being one of the premier institutions of higher education in India, takes pride in having produced engineers of the top caliber. A testimony to the green and lush institute's outstanding quality and excellence is its consistent presence among the top positions in multiple rankings of engineering colleges pan India. Established in 1794, the iconic college has been nurturing exceptional talents in science, technology, business and engineering. Roots of CEG dates back to May 1794 when it was formed as a School of Survey. It was established as a college in 1859 and is India's oldest engineering and technical institution.

About IES

Anna University, one of the premier universities in the country, has established Centre for New & Renewable Sources of Energy (CNRSE), in 1984. Later it was rechristened as Institute for Energy Studies (IES) in the year 1999, considering the need for creating trained manpower for energy projects, ensuring energy security and environmental conservation. IES offers 2 PG Programs viz., M.E. (Energy Engg.) and M.E. (Solar Energy). Institute has state-of-the art facilities and serves as a hub for learning of higher standards and gaining hands-on experience in the fascinated field of energy engineering and solar energy.

Programme Objectives

- **To create awareness about Energy Audit**
- **Inculcate consciousness on the environmental impact of power generation**
- **Awareness on the energy losses encountered in different utilities of a typical Thermal Power Plant**
- **Stress on the need for “Energy Conservation” and its associated benefits**
- **Best practices for lowering the heat rate of thermal power plants**

Expert Lectures on

- **Energy Audit – Benefits and Prospects**
- **Boilers – Losses and its mitigation**
- **Steam Utilisation – Energy conservation techniques**
- **Electric Motors – Avenues for Efficiency Improvement**
- **Energy Efficient Pumps**
- **Variable Frequency Drives**
- **Energy conservation in HVAC systems**
- **Compressed Air Systems – Energy Efficient Practices**
- **Experiences of Energy Audit at Neyveli Lignite Corporation**
- **Energy Efficient Illumination Systems**
- **Instruments used for Energy Audit**
- **Avenues for Energy Conservation in Fans**
- **Experiences of Energy Audit in Thermal Power Plants**
- **Health and Happiness**

Targeted Audience

- Academicians
- Research scholars
- UG/PG students and
- Industry and Admin personnel

Resource Persons From



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NEW SENSE



Registration

- Number of participants is limited to 200
- Registration through ATAL Website
- No registration fee
- Conducted online
- MS Teams platform



ATAL (AICTE Training and Learning Academy) sponsored FIVE DAY ONLINE FDP on
"AVENUES FOR ENERGY CONSERVATION IN THERMAL POWER PLANTS"
(07-02-2022 TO 11-02-2022)



INSTITUTE FOR ENERGY STUDIES, CEG CAMPUS,
ANNA UNIVERSITY, CHENNAI - 600025



PROGRAMME SCHEDULE

Date	Session#1 9:00 am to 11:00 am	Tea Break	Session#2 11:30 am to 01:30 pm	Lunch Break	Session#3 2:30 pm to 4:30 pm
07.02.2022 (Monday)	Energy Audit <i>Dr. M. Venkata Ramanan</i> Professor & Director, Institute for Energy Studies Anna University, Chennai		Boilers – Losses and its Mitigation <i>Dr. R. Sethumadhavan</i> Senior Director GSH Energy Services Pvt Ltd, Chennai		Steam Utilisation – Energy Conservation Techniques <i>Mr. J. Nagesh Kumar</i> Director CEEP, Chennai
08.02.2022 (Tuesday)	Efficiency Improvement in Electric Motors <i>Mr. J. Srinivasan</i> Motor & Power Quality Specialist Ace Enablers LLP, Chennai		Energy Efficient Pumps <i>Mr. Srinivasa Rajkumar</i> Regional Manager Grundfos, Chennai		Variable Frequency Drives <i>Mr. Venkat Raj</i> Regional Manager-South Danfoss Drives, Chennai
09.02.2022 (Wednesday)	Energy Conservation in HVAC Systems <i>Mr. T.R. Seshadri</i> HVAC Consulting Engineer HVAC Enersave solutions, Chennai		Compressed Air Systems - Energy Efficient Practices <i>Mr. N. Sivakumar</i> Deputy Manager ELGI Equipments Ltd, Coimbatore		Experiences of Energy Audit at NLC <i>Mr. M.G. Morshad</i> Energy Manger – TPS#II NLC India Limited, Neyveli
10.02.2022 (Thursday)	Energy Saving in Illumination Systems <i>Dr. G. Subramanyam</i> Director Siri Exergy, Hyderabad		Instruments for Energy Audit <i>Mr. Sekhar Sahoo</i> General Manager Nevco Engineers Pvt. Ltd, Chennai		Avenues for Energy Conservation in Fans <i>Mr.S.Patrison</i> Managing Director Adroit Fantech Engineers, Chennai
11.02.2022 (Friday)	Experiences of Energy Audit in TPPs <i>Mr. Karikal Chozhan,</i> Deputy General Manager, NTPC Limited		Health & Happiness (A mandated session of AICTE) <i>Mrs. Vasanthi Babu</i> Counsellor Anna University, Chennai		Test for Participants and Valedictory function