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

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Organized by
Institute for Energy Studies
Anna University
CEG Campus
Guindy
Chennai – 600025
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

- NTPC
- ACE
- ELGI Equipment Limited
- Grundfos
- Siri Exergy
- CEEF
- Jamkhandi Services
- NEVCO
- Danfoss
- Ener Save
- GSH

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**

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