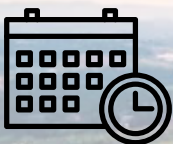


ASSOCIATION OF ELECTRICAL AND ELECTRONICS ENGINEERS
PRESENTS

GUEST LECTURE ON

**CLEAN COAL TECHNOLOGIES
FOR SUSTAINABLE POWER
GENERATION**

SPEAKER:
MR.R.KRISHNAKUMAR,
DEPUTY EXECUTIVE ENGINEER,
NLC INDIA LIMITED.



DATE: 10/05/2022

TIME: 10:30AM TO 12:00PM

VENUE: VIDEO HALL, SVCE

CONVENOR

Dr.KR.Santha, Vice-Principal,
Professor & Head of Dept,
Department of EEE

CO-ORDINATORS

Dr.M.Sankar, Asst. Professor
Mr.S.Sudharsanam, Asst. Professor
Department of EEE

STUDENT CO-ORDINATORS

Mr.Adithyan M, General Secretary-AEEE
Mr.Hemanth T, Joint Secretary-AEEE



SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Association of Electrical and Electronics Engineers

10-5-2022

GUEST LECTURE REPORT

TOPIC: CLEAN COAL TECHNOLOGIES FOR SUSTAINED POWER GENERATION

GUEST SPEAKER: **Mr.R.KRISHNAKUMAR,**
DEPUTY EXECUTIVE ENGINEER,
NLC INDIA LIMITED, NEYVELI

The guest lecture on the topic 'Clean Coal Technologies for Sustained Power Generation' presented by Mr.R.Krishnakumar, Deputy Executive Engineer, NLC India Limited, Neyveli on 10/05/2022, Tuesday from 10.30 AM to 12.15 PM in the Video hall. Second and third year students (a total of 99) and faculty from EEE dept. participated in this guest lecture event.

The event started with a prayer song by Ms.Sharon Monisha of II year EEE-B. Dr.KR.Santha, Vice-Principal, Professor and HOD/EEE presented an introductory speech and detailed on the significance of pursuing Electrical Engineering which has the advanced core courses like Industrial Automation, Smart Grid and IoT Applications in Electrical Engineering.

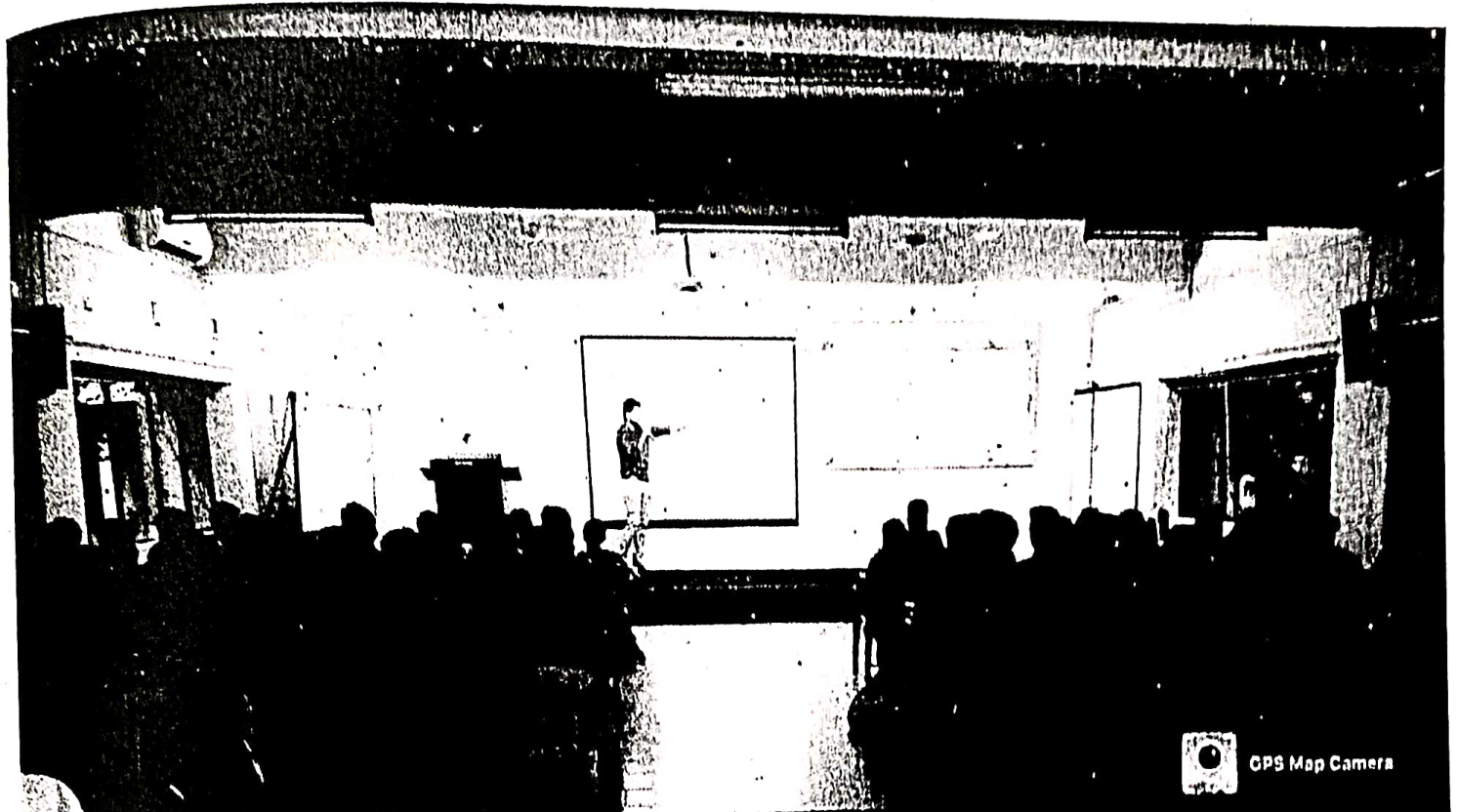
The guest speaker Mr.R.Krishnakumar started his guest lecture with a brief introduction on the Government Schemes for promoting LED lighting, the UJALA (Unnat Jyoti by Affordable LEDs for All), last mile connectivity and electricity connection to all un-electrified households in rural areas, the SAUBHAGYA and the Electricity Act 2003 that consolidate the laws relating to generation, transmission, distribution, trading and use of electricity. He presented the per capita power consumption increasing trend, coal/lignite based power generation, and renewable power generation statistics, demand and deficit demand (0.4% as of 2021) details.

In the part of clean coal technologies concept, the expert speaker shared the details on air pollutants vis-à-vis NO_x, SO₂, particulate matter and CO from a coal based thermal power

plant. The speaker explained the technologies available for emissions control and to sustain the multi-pollutant emission regulatory requirements which are: Selective Catalytic Reduction (SCR), Electrostatic Precipitators (ESP), Fabric Filters (FF), Flue Gas Desulfurization (FGD), wet ESP, Dry Sorbent Injection (DSI), and Mercury Control Methods (MCM) and concluded his lecture by summarising government schemes, policies and pollution control methods.

Ms.Srilayaa of II year EEE compèred the whole event. The event concluded with the vote of thanks by Ms.Sobitha of II year EEE.





GPS Map Camera

Kanchipuram, Tamil Nadu, India

XXPC+WQF, Kanchipuram, Tamil Nadu 602105, India

Lat 12.986968°

Long 79.971987°

10/05/22 11:33 AM



Sri Venkateswara
College of Engineering

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K.R. Sankar
HOD/EEE 21.3.22