

REPORT ON GUEST LECTURE

1	Name of the Activity/Event	"PRACTICAL VIEW OF THERMAL POWER PLANT"		
2	Date of Activity/Event	22-06-2021		
3	Organized by/Name of the committee	Department of EEE		
4	Place of Activity/event	Narayana Engineering college , Nellore		
5	Resource person/guest/organization	B .KRISHNA KISHORE Assistant Executive engineer Rayalaseema thermal power plant, APGENCO Certified energy manager.		
6	Type of activity/Event	GUEST LECTURE		
7	Activity/Event objectives	1. knowledge on Distributed control systems.		
8	Participation	Students	Faculty	Total Participation
		96	03	99
9	General remarks	1. Lack of Time 2. Not audible to last row		
10	Suggested Improvements	Need full day session		
11	Enclosures	1.photos 2.attendance report		

On 22/7/2021 Narayana engineering college, Nellore EEE Department Organized a Guest lecture on "PRACTICAL VIEW OF THERMAL POWER PLANT". The session was conducted through online mode by using zoom app and the resource person of the program is B .KRISHNA KISHORE ,Assistant Executive engineer , Rayalaseema thermal power plant, APGENCO ,Certified energy manager, kadapa. In this lecture they discussed about today most of the electricity produced throughout the world is from steam power plants. However, electricity is being produced by some other power generation sources such as hydropower, gas power, bio-gas power, solar cells, etc. One newly developed method of electricity generation is the Magneto hydro dynamic power plant. This paper deals with steam cycles used in power plants. Thermodynamic analysis of the Rankine cycle has been undertaken to enhance the efficiency and reliability of steam power plants.

The thermodynamic deviations resulting in non-ideal or irreversible functioning of various steam power plant components have been identified. A comparative study between the Carnot cycle and Rankine cycle efficiency has been analyzed resulting in the introduction of regeneration in the Rankine cycle. Factors affecting efficiency of the Rankine cycle have been identified and analyzed for improved working of thermal power plants.

This program was co-ordinate with the help of 2 Faculty members.

The image is a screenshot of a Zoom meeting interface. At the top center, the Zoom logo is visible with a dropdown arrow. To the right is a red 'Leave' button. On the left side, there is a 'REC' indicator. The main content area displays a presentation slide with the title 'A PRACTICAL VIEW OF A THERMAL POWER PLANT' and a photograph of a thermal power plant with several tall chimneys. Below the slide, a Windows taskbar is visible. On the right side, there is a video feed of a male participant. At the bottom of the screen, the Zoom control bar includes icons for 'Unmute', 'Start Video', 'Share', 'Participants' (showing 99), and 'More'.

9:37 4G+ 46%

Zoom Leave

REC

Unmute Start Video Share Participants 102 More

9:45 4G+ 44%

REC

SUPER HEATER AND REHEATERS

> **Super heater** is a component of a steam-generating unit in which steam, after it has left the boiler drum, is heated above its saturation temperature
 > **Reheater** : Some of the heat of superheated steam is used to rotate the turbine where it loses some of its energy

Note: AFR is the air preheater

Unmute Start Video Share Participants 102 More

9:42 4G+ 43%

Zoom Leave

REC

STEAM GENERATING EQUIPMENT

- Boiler
- Economiser
- Air Preheater & Deaerator
- Superheater

Unmute Start Video Share Participants 101 More

9:51 4G+ 42%

REC

STEAM TURBINE

TURBINE CROSS SECTIONAL VIEW

Unmute Start Video Share Participants 101 More

HOD

PRINCIPAL

9:29 4G+ 40%

Close Participants (99)

Search

- NL Nagalakshmi Lebaku (me)
- DG Dr Gv (host)
- NE Narayana Engineering... (Co-host)
- KK KRISHNA KISHORE B
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Invite

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Invite

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Invite

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Invite

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Invite

