

**REPORT ON GUEST LECTURE**

1	Name of the Activity/Event	"MODREN TRENDS IN SUBSTATION"		
2	Date of Activity/Event	25-04-2021		
3	Organized by/Name of the committee	Department of EEE		
4	Place of Activity/event	Narayana Engineering college , Nellore		
5	Resource person/guest/organization	T.Venkateswarlu Assistant Engineer APSPDCL Nellore		
6	Type of activity/Event	Seminar		
7	Activity/Event objectives	1. knowledge on substations.		
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 25/4/2021 Narayana engineering college, Nellore EEE Department Organized a Guest lecture on "MODREN TRENDS IN SUBSTATION". The session was conducted through online mode by using zoom app and the resource person of the program is T.Venkateswarlu, Assistant Engineer , APSPDCL ,Nellore. 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.



### *Concepts Explanation*

This program was co-ordinate with the help of 2 Faculty members. All the students were thank full to the convenor for such a good event.

HOD

PRINCIPAL

