

Department Of Physics

Field Trip

Academic Year : 2021-22

Place: Kakatiya Thermal Power Plant,Chelpur


The principal,
Government Degree College,
Bhupalapally.

Sir,

Sub: Request to permission for Industrial tour to "K.T.P.P, CHELPUR" reg.
I, undersigned, request you to grant me permission to take the B Sc(MPCs) 1st
year Students for Industrial tour to Kakatiya Thermal Power Plant, Chelpur
on 17/1/2022

Thanking you ,

Yours faithfully

(E.Kavitha) 

Incharge Dept .Of Physics

Permitted
18/1/22
Principal
Govt. Degree College, Bhupalapally,
Dist. Nellore, Andhra Pradesh-525109

The students of B Sc(Mpcs) 1st year students have been taken to Kakatiya Thermal Power Plant, which is situated near to Bhupalapally. This trip is arranged to know the power generation process from the coal directly. This plant generates 1100MW power every day.

After entering into the plant they gave some precautions and supplied caps for all students. There the staff first explained about basic layout and working of a thermal power plant to the students .



Principle involved in Thermal Power Plant:

Fuels such as heavy oil, LNG (liquefied natural gas) and coal are burned inside a boiler to generate steam at high temperature and high pressure.

This steam is used to rotate the impeller of the steam turbine. This drives the power generators connected to the turbine that generate electricity.

Students observed the main important working units of the plant and understand the principles and technology involved. They observed the working of following parts of the thermal power plant :

- Boiler
- Super heaters
- Turbines
- Condenser
- Cooling tower
- Ash storage unit
- Coal storage unit

Students and faculty at the power plant:



The students observing working of boiler in the plant:



For B.Sc students electric power generator and electro magnetic induction and electromagnetic waves topics are covered in the syllabus of 3rd semester.

Conclusion :

- Through this trip they understand working of power generator,
- Students get an exposure to the working of industries and its impact on the surroundings.
- Students understand the need of saving electric power.

List of students participated in Industrial Visit:

s.no	Name of the students	Group	signature
1	Azmeera Divya	BSc (MPCS) 1styear	A. Divya
2	Badavath Roja	BSc (MPCS) 1styear	B. Roja
3	Balabhadra Swathi	BSc (MPCS) 1styear	Swathi
4	Bangari Manoja	BSc (MPCS) 1styear	B. Manoja
5	Banoth Pavan	BSc (MPCS) 1styear	B. pavan
6	Botla Akhila	BSc (MPCS) 1styear	Akhila
7	Cherpa Laxman	BSc (MPCS) 1styear	Laxman
8	Chidirapu Ramya	BSc (MPCS) 1styear	Ch. Ramya
9	Dundi Rajani	BSc (MPCS) 1styear	Rajani
10	Gundekari Nandini	BSc (MPCS) 1styear	Nandini
11	Gunti Anusha	BSc (MPCS) 1styear	anusha
12	Jadi Pavankumar	BSc (MPCS) 1styear	J. Pavankumar
13	Kale Sandhya	BSc (MPCS) 1styear	K. Sandhya
14	Lavudiya Akhila	BSc (MPCS) 1styear	Akhila
15	Mogili Naresh	BSc (MPCS) 1styear	M. Naresh
16	Mogulla Renuka	BSc (MPCS) 1styear	M. Renuka
17	Mohamnad Feroz	BSc (MPCS) 1styear	MD. Feroz
18	Oranganti Sukanya	BSc (MPCS) 1styear	O. sukanya
19	Punnam Poojitha	BSc (MPCS) 1styear	P. poojitha
20	Sangem Sahith	BSc (MPCS) 1styear	P. Sahith
21	Maddi Swapna	BSc (MPCS) 1styear	M. Swapna
22	Thadandla Anusha	BSc (MPCS) 1styear	T. Anusha
23	Thadandla Mounika	BSc (MPCS) 1styear	T. Mounika
24	Amma Vennela	BSc (MPCS) 1styear	A. Vennela
25	Mokidi Divya	BSc (MPCS) 1styear	Divya

Incharge