



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF ELECTRICAL ENGINEERING

A.Y-	Year /Semester	Name of the Industry Visited	Dates	No.of Students visited
2018-19	B.Tech III SEM	Dr. NTTPS, Ibrahimpatnam	23-08-2018 &24-08-2018	112
	B.Tech VI Sem	CIPET, Vijayawada	05-01-2019 & 10-01-2019	135
	B.Tech VIII SEM	Polavaram Irrigation Project	08-01-2019	90



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DEPARTMENT OF ELECTRICAL ENGINEERING

REPORT ON EVENT

"INDUSTRIAL VISIT TO Dr. NTPPS, Ibrahim Patnam"

Event Type	:	Industrial Visit
Date / Duration	:	23-08-2018 & 24-08-2018
Name of Industry	:	Dr.NTPPS, Ibrahimpatnam
Faculty Accompanied	:	Mr. A.V.Ravi Kumar, Mr P.rathnakar, Ms. k.S.lavanya, Ms. Padma
Total no of students	:	B. Tech-III Semester A& B Students
Objective of the event	:	To get practical exposure to power generating plants
Outcome of event	:	Students acquired practical knowledge on various stages in electrical power generation, Human machine interfacing, and connecting generators to grid
Description / Report on Event:		

The II B.Tech III Semester Section A Students of Electrical Engineering visited **Dr NTPPS**, Vijayawada on 23-08-2018 students on 24-08-2018 accompanied by three staff members (including 2 teaching & 1 non teaching).

After arriving the industry students are divided into batches accompanied by A.Es of Dr NTPPS.

Students observed the following stages involved in Power generation in thermal Power Plant

Coal handling Plant: Pulverization of coal, Boiler Section for steam Generation to rotate turbo alternators, Control units with Complete Automation, Practical exposure to High Speed Alternators of High Capacity, Generating Transformers, Cooling towers. Students learnt why overall efficiency of thermal power plant is low. finally they got opportunity to visit to Switch yard there they have learnt various switch gear equipments such as Relays and Circuit breakers and connection of generators to grid through bus bars and Instrument Transformers Protecting lightning arrestors.



Feed back/ Suggestions : Overall students are satisfied with this Industrial visit



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REPORT ON EVENT

"INDUSTRIAL VISIT CIPET, Vijayawada"

Event Type	:	Industrial Visit
Date / Duration	:	05-01-2019 and 10-01-2019
Faculty Accompanied	:	Mr. Prem Kumar, Mr B.Pangediah, Mr. Ch. Rajesh, Ms. Padma
Total no of students	:	B. Tech-VI Semester A & B Students
Objective of the event	:	To get practical exposure to plastic Engineering and technology
Outcome of event	:	Students acquired practical knowledge on CNC machines and Design using CAD/CAM Software

Description / Report on Event:

Central Institute of Plastics Engineering & Technology CIPET: CSTS - Vijayawada is established to cater the man-power needs of Plastics and allied industries of A.P through its Long-Term Training and Vocational Courses sponsored by Govt. of A.P and Govt. of India.

Students observed the following things

In **processing** section students learn about the working of moulding machines like double colour Injection moulding machines, micro processor control machines, all electric machines, multilayer blown film machines, stretch blow moulding machines (at selected centres), rotomoulding by using these machines Inspection, proving and evaluation of moulds and dies and moulding of components .Testing of mould ability and optimization of processing conditions/parameters.

In **testing** section students learn about the complete range of analysis of polymers, plastics and composites and provide best services to the plastic and allied industries by undertaking assignments of plastics materials, products, composites testing as per various National and International standards.

In **tool room** students observe the various CNC machines that enable the centres to handle commercial job assignments for mould fabrication, high precision machining and manufacturing of standard mould bases for plastics products of any profile, shape or complexities. Besides, the tool rooms also undertake job orders of varying magnitude such as repair of moulds and dies, CNC machining, CNC spark erosion, grinding, drilling, designing, development of jigs and fixtures, tool parts .

In the **Design** section they know about the different software that is used in CIPET .CAD / CAM / CAE departments of CIPET provide world class technology and engineering services, with an excellent combination of engineering knowledge and software skills and industrial experience.

Our students observe the working of different tool room machines like

- Jig boring machine
- Co-ordinate drilling and boring machine
- Rigid die sinking machine centre lathe with hydro copying attachment
- Rotary surface grinding Cylindrical grinder

- Optical profile grinding machine



Feed back/ Suggestions : Overall students are satisfied with this Industrial visit



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REPORT ON EVENT

"INDUSTRIAL VISIT POLAVARAM PROJECT"

Event Type	:	Industrial Visit
Date / Duration	:	08-01-2018
Name of Industry	:	Polavaram Project
Faculty Accompanied	:	Dr. M.S. Giridhar, Mr . S.Prem Kumar, Mr .P.rathnakar Kumar Mrs G.tabita
Total no of students	:	B. Tech-VIII Semester A & B Students
Objective of the event	:	To get familiar with project construction environment and to get practical knowledge of electrical power generation through hydro energy source.
Outcome of event	:	Students got the idea of electrical power generation and students will also get familiar with Reservoir, Dam, Spill Way, coffer dam area etc

Description / Report on Event:

Students observed the following things in the Polavaram irrigation project

The Polavaram Project proposals consist of the following major components:-

1. **Head Works:** The Head works consist of Earth-Cum-Rock Fill dams across the main river with spillway on the right flank, and power house on left flank on downstream slopes was under construction.

The Earth -Cum- Rock Fill dam (Gap-II) in the main river course is 1750 m. long with a maximum height of +53.320 m. (175 ft.), top width 15 m and with single plastic concrete Diaphragm wall of thickness 1.5 m. In addition, there are two Earth Dams with a length of 564 M with top width 12.5M and a Length of 140 M and top width 12.5 m respectively proposed on either side of earth cum rock fill dam which is 95% completed its construction.

The Spill Channel for a Length of 2920 m and bed width of 1000 m is proposed at downstream of spillway. Pilot Channel of Length 650 m with a bed width of 660 m is proposed at the end of Spill Channel to River confluence. An approach channel is proposed on the upstream side of spillway to divert water from river for a length of 2310 m and bed width 660 m is under construction.

The Spill Way has a length of 1054.40 m over flow section and non over flow of 37 m on either side with total length of 1128.40 m. It is having a 48 Nos. radial gates to pass a maximum flood discharge of 1.41 lakh cumecs . Two radial gates were already completed.

Through **View point** students have observed the total construction of project and got familiar with Reservoir, Dam, Spill Way, coffer dam, Catchment area ect.

Recently on January 7th, 2019, The Polavaram project in Andhra Pradesh entered the Guinness Book of World by pouring 32,100 cubic meters of concrete in 24 hours by Navayuga Engineering.

As an electrical engineer we compared, there will be innumerable advantages for Polavaram Project than the disadvantages.



Feed back/ Suggestions : Overall students are satisfied with this Industrial visit