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 & ELECTRONICS ENGINEERING

A.Y	Year /Semester	Name of the Industry Visited	Dates	No.of Students visited
2019-20	B.Tech VII Sem	Dr. NTTPS, Ibrahimpatnam	26-08-2019 and 27-08-2019	125
	B.Tech V Sem	Kumar Pumps, Tenali	11-09-2019 and 12-09-2019	140
	B.Tech III Sem	LANCO Power, Kondapalli	27-08-2019 and 28-08-2019	100

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

REPORTON EVENT
"INDUSTRIAL VISIT TO Dr. NTTPS, Ibrahim Patnam"

Event Type	:	Industrial Visit
Date / Duration	:	26-08-2019 &27-08-2019
Name of Industry	:	Dr.NTTPS, Ibrahimpatnam
Faculty Accompanied	:	Mr. Deepak Reddy, Mrs. k.S.lavanya, Mr.Y.raghu vmsi
Total no of students	:	B. Tech-VII Semester A& B Students (Total 130)

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 IV B.Tech VII Semester Section A Students of Electrical Engineering visited **Dr NTTPS**, Vijayawada on 26-08-2019 and VII semester B Section students on 27-08-2019 accompanied by three staff members (including 2 teaching & 1 non teaching).
After arriving the industry students are divided into batches anompanied by A.Es of Dr NTTPS.

Students observed the following stages involved in Power generation n thermal Power Plant
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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 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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Event Type	:	Industrial Visit
Date / Duration	:	11-09-2019 & 12-09-2019
Name of Industry	:	Kumar Pumps, Tenali
Faculty Accompanied	:	Mr.J.V.Pavan Chand, Mrs T.Naga Durga, Mr AVGA Marthanda, Mr. Imran Abdul, Mrs K.S.Lavanya
Total no of students	:	B. Tech-V Semester A & B Students

Objective of the event : To get practical exposure of motors manufacturing industry.

Outcome of event : Students acquired practical knowledge on on various stages involved in AC Motors and Pumps manufacturing process

Description / Report on Event:

The B.Tech V Semester Section A Students of Electrical Engineering visited **Kumar Pumps ,Tenali**, on 11-09-2019 & 12-09-2019 accompanied by three staff members (including 2 teaching & 1 non teaching).

Students Visited the following sections in Industry
Preparation of mold and casting
Surface finishing of motor casings
applying anti corrosion liquid on casings
Manufacturing, tapering, grinding
surface finish done by cnc machines
preparation of windings
assembling of parts
painting
testing the products

Finally Students observed following manufacring process needed for motor

Housing: Raw castings from foundries are shot blasted and painted

Rotor assembly: The rotor assembly consists of a stack of laminations of high quality electrical steel, which is filled with a conducting material such as aluminium or copper.

Stator assembly: In most motors, the inner assembly is the rotating one and the outer one is the stationary one, called the stator assembly. The stator assembly is made of laminations matching the rotor sections. The conducting material in this case is copper wire, which is wound in the cavities of the lamination.

End shields and other supports: There are a number of other cast components which have to be machined to support and enclose the motor assembly from either sid

Assembly: The assembly operation for motors involves putting the rotor assembly inside the stator assembly, fixing bearings to the shaft, adding the endshield covers and attaching the electrical connections and installation elements. A fan and fan cover for cooling the housing is also attached.


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DEPARTMENT OF ELECTRICAL ENGINEERING

Report
"INDUSTRIAL VISIT LANCO, Kondapalli"

Event Type	:	Industrial Visit
Date / Duration	:	27-08-2019 & 28-08-2019
Name of Industry	:	LANCO Power , Kondapalli
Faculty Accompanied	:	Dr. G.Nageswara Rao, Mrs G.Tabita, Mr. K.Naga Linga Chary, Mrs. T. Naga Durga
Total no of students	:	B. Tech-III Semester A& B Students (120 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 **LANCO Power**, Kondapalli on 27-08-2019 and on 28-08-2019 accompanied by three staff members (including 2 teaching & 1 non teaching).

After arriving the industry students are divided into batches accompanied by A.Es LANCO Power. Students have first time observed how the energy conversion takes place for power generation that too from Gas as fuel. Students came to know the Natural gas is supplied GAIL India Ltd and it is combined cycle power plant whuch use braton cycle, followed by heat recovery steam generator and a steam Turbine which uses Rankine cycle which are more efficient than simple gas power plants. The total capacity of the plant is 1476 W.students have learned how theoretical concepts applied practically here. Students practically saw high capacity alternators and how they are connected to grid through step up Transformers and various switch gear equipments there.

Feed back/ Suggestions : Overall students are satisfied with this Industrial visit and they said they need more industrial visits like this.