



DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING-M.E.(PSPE)

1.3.4. Percentage of students undertaking field projects/Internships (2022-2023)

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SI.No	Roll Number	Name of Student	Field Projects/internships	Page No
1.	160122766001	NARASIMHULU	Internship	02
2.	160122766002	BEEMARI PRANESH	Internship	03
3.	160122766003	AZKA IHTESHAM UDDIN AHMED	Internship	04
4.	160122766004	MARAPALLY SAI CHARAN	Internship	05
5.	160122766005	SUNKARI SRILATHA	Internship	06
6.	160122766006	BOLLE SHIRISHA	Internship	07
7.	160122766007	DEVSOTH SRINIVAS	Internship	08
8.	160122766008	SANGEETHA BACHALA	Internship	09
9.	160122766001	NARASIMHULU	Industrial Visit	10-22
10.	160122766002	BEEMARI PRANESH	Industrial Visit	10-22
11.	160122766003	AZKA IHTESHAM UDDIN AHMED	Industrial Visit	10-22
12.	160122766004	MARAPALLY SAI CHARAN	Industrial Visit	10-22
13.	160122766005	SUNKARI SRILATHA	Industrial Visit	10-22
14.	160122766006	BOLLE SHIRISHA	Industrial Visit	10-22
15.	160122766007	DEVSOTH SRINIVAS	Industrial Visit	10-22
16.	160122766008	SANGEETHA BACHALA	Industrial Visit	10-22
17.	160121766001	KHAJA IZHARUDDIN	Project	23
18.	160121766003	P.PRADEEP KIRAN	Project	24
19.	160121766004	M.VINAY KUMAR	Project	25
20.	160121766005	H.PRAVEEN	Project	26
21.	160121766006	K.VINOD KUMAR	Project	27





TO WHOMSOEVER IT MAY CONCERN INTERNSHIP

This is to certify that Mr. NARASIMHULU has done his internship with BizAcuity solutions Pvt.Ltd. from 01-02-2023 to 07-02-2023. He worked on Software developer.

During his internship, he has undergone the training on SQL, Tableau and Excel. During his tenure with us, he was able to handle major responsibilities and was found to be hard working and dedicate individual who exhibited a quest for learning and flair for solving problems.

We at **BizAcuity Pvt.Ltd**, are satisfied with his work and wish him all the very best for all his future endeavours.





Certificate of Internship

This is Certify that

BEEMARI PRANESH

from

Chaitanya Bharathi Institute of Technology

Has sucessfully completed a 1 week swecha internship program during 01-02-2023 to 07-02-2023 on Software developer with Swecha.



SWELHA

Ty No. 91, Beside Contro lot Good Governance, Greenlands colony, Svm, Jawaharial, Nehru Outer Ring Rd, Modraya Reddy Calony, Gochibawii, Telangana SOO032



Certificate of Internship

This is Certify that

AZKA IHTESHAM UDDIN AHMED

from

Chaitanya Bharathi Institute of Technology

Has sucessfully completed a 1 week swecha internship program during **01-02-2023 to 07-02-2023** on **Web** development and data science with Swecha.



SWELHA

Fig. 14c. 91, Besude Contro for Good Governance, Greenlands colony, Svm., Jawaharial, Nehru Outer Ring Rd, Modraya Reddy Calony, Gochibawii, Telangana 500032



TO WHOMSOEVER IT MAY CONCERN

INTERNSHIP

This is to certify that **Mr. MARAPALLY SAI CHARAN** has done his internship with **BizAcuity solutions Pvt.Ltd.** from **01-02-2023 to 07-02-2023**. He worked on Programming with C and C++.

During her internship, he has undergone the training on C, C++, SQL and Excel. During his tenure with us, he was able to handle major responsibilities and was found to be hard working and dedicate individual who exhibited a quest for learning and flair for solving problems.

We at **BizAcuity Pvt.Ltd**, are satisfied with his work and wish him all the very best for all his future endeavours.





Certificate of Internship

This is Certify that

SUNKARI SRILATHA

from

Chaitanya Bharathi Institute of Technology

Has sucessfully completed a 1 week swecha internship program during **01-02-2023 to 07-02-2023** on **Web** development and data science with Swecha.



SWELMA

Ty No. 91, Beside Contro lot Good Governance, Greenlands colony, Svm, Jawaharial, Nehru Outer Ring Rd, Modraya Reddy Calony, Gochibawii, Telangana SOO032

SkillDzire



Congratulations, BOLLE SHIRISHA

Programming with C and C++

Course completed on 01-02-2023 to 07-02-2023, 1 week.

By completing this course, you have sharped your skills & mode yourself an asset for industry needs



Founder & CEO

SkillDzire Technologies Pvt. Ltd. Bizness Square 18, HITEC City, Hyderabad, Telangana | 500081









Ref: Solara/Intern/2023 Date:10-02-2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. DEVSOTH SRINIVAS has done his internship with SOLARA HOME, Hyderabad from 01-02-2023 to 07-02-2023. He worked on customer support and Logistics.

During his internship, he was responsible for confirming orders with customers shipment, scheduling and ensuring safe delivery product. He is the key resource to list down areas of operation and identification of logistic department.

ASUL-ABUNA MOVVA DIRECTOR SOLARA

erntheboyoux@gmoil.com +81-9014443770 www.solara.m O TEMP



Certificate of Internship

This is Certify that

SANGEETHA BACHALA

from

Chaitanya Bharathi Institute of Technology

Has sucessfully completed a 1 week swecha internship program during **01-02-2023 to 07-02-2023** on **Web** development and data science with Swecha.

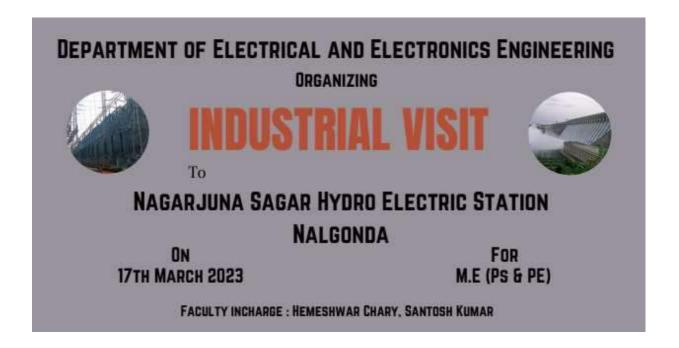


Ty No. 91, Beside Contro lot Good Governance, Greenlands colony, Svm, Jawaharial, Nehru Outer Ring Rd, Modraya Reddy Calony, Gochibawii, Telangana SOO032



INDUSTRIAL VISIT REPORT

Nagarjuna Sagar Hydro Electric Station, Nalgonda.



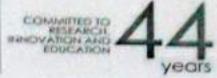




A report on industrial visit organised by Department of Electrical And Electronics Engineering, Chaitanya Bharathi Institute of Technology (A) on 17.03.2023 for the students of Electrical and Electronics Engineering (VI-Sem) in order to get the practical knowledge about electric power generation using hydel energy.







DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INDUSTRIAL VISIT

NAGARJUNA SAGAR HYDRO ELECTRIC STATION SCHEDULE

S.no	Date	Time	Schedule
1.	17.03.2023 (Day-1)	9 am	Starts from CBIT, Hyderabad.
		1 pm	Reach Nagarjuna Sagar
		2 pm to 5 pm	Power Plant Visit
	18.03.2023 (Day-2)	9 am to 1 pm	Nagarjuna Sagar Dam
2.		3 pm to 4 pm	Buddhavanam Park
		4 pm	Starts from Nagarjuna Sagar
		7 pm	Reach CBIT, Hyderabad.

Faculty In charges

P. Hemeshwar Chary

Assistant Professor, EEE Dept.

Dept. of EEE

N. Santosh Kumar

N-L

Assistant Professor, EEE Dept.

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DETAILS OF JOURNEY

EEE Dept. CBIT (A) has organised an industrial visit on 17 -March-2023 to Nagarjuna sagar located in Nalgonda district for the Electrical and Electronics Engineering students.

The visit was arranged by HoD of EEE Dept. Prof. M. Bala Subba Reddy.

Sri P. Hemeshwar Chary & Sri N. Santosh Kumar were the faculty In-charges for the industrial visit.

We started travelling from the college campus at 10:30 am via travel bus. (Sri N. Santosh Kumar, Sri P. Hemeshwar Chary,) accompanied the students during the visit.

Engg. C. V. Siva Kumar, Assistant Engineer, Nagarjuna sagar Hydro Electric Station, guided us throughout the power plant visit.

POWER PLANT PROFILE

World's largest masonry dam protected with 26 gates measuring 124.663m in height, Nagarjuna sagar Dam located in Nalgonda District is built across River Krishna.

The dam has a storage capacity of nearly 11,472 million cubic meters with an irrigation capacity for 9.81 lac acres of land. The dam measure 150m tall and 16 kms in length while also being a major tourist attraction.

In fact, it is among the first irrigation projects started by Indian Government as an element of Green Revolution.

Today, apart from offering not only irrigation facility, it is also a source of hydro-electricity.





The dam attracts a huge number of tourists owing to its great magnificence as well as the cover of dense green surrounding it offering an absolutely captivating view.



TECHNICAL DATA

Catchment Area: 214,185 km2 (82,697 sq. mi)

Full Reservoir Level (FRL): 179.83 metres (590 ft)

Water spread area at FRL: 285 km2

Gross storage capacity at FRL: 312 TMC

MDDL of river sluices: 137.3 metres (450 ft)

MASONRY DAM

Spillway of dam: 471 m

Non-over flow dam: 979 m

Length of Masonry dam: 1450 m

Maximum height: 125 m



EARTH DAM

Total Length of Earth dam: 3414 m

Maximum height: 128 m

POWER GENERATION

Power Units: 1 No. conventional (110 MW capacity), 7 no's Reversible (100 MW capacity)

CANAL POWER HOUSE

Right side: 3 units 30 MW (each)

Left side: 2 units 30 MW (each)

POWER GENERATION

The hydroelectric plant has a power generation capacity of 815.6 MW with 8 units (1x110 MW+7x100.8 MW).

The first unit was commissioned on 7 March 1978 and the 8th unit on 24 December 1985.

The right canal plant has a power generation capacity of 90 MW with 3 units of 30 MW each.

The left canal plant has a power generation capacity of 60 MW with 2 units of 30 MW each. The tail pond is under advanced stage of construction to put to use the pumped storage features of 7×100.8 MW units and it will be used for irrigation.



Nagarjuna sagar dam power generation

Many times, it happens that power generation from the 150 MW canal based units is not optimised when the Nagarjuna sagar reservoir is overflowing on its spillway and less water is required for irrigation from the canals during the monsoon floods.

Power generation from the canal based hydro units can be optimised by running these units during the flooding period by releasing the water fully into the canals. The unwanted canal water can be released into the natural stream when it is crossing the major stream. Thus run off power can be generated from the water going down unutilised into the river by the canal based power units also.

The water level in the Nagarjuna sagar reservoir shall be maintained above the minimum level required for these units in most of the time by releasing water from the upstream Srisailam reservoir to optimise the power generation from the canal based units during dry season.



GROUP OBSERVATION

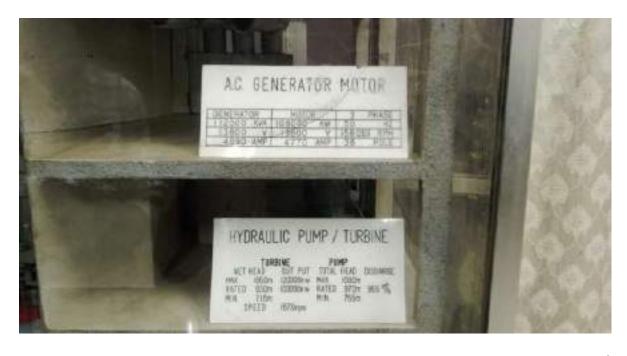
This Industrial visit was very helpful in acquiring practical knowledge about the Hydro power generation, use of power transformers, AC motors, Turbine in generation.

We have seen current transformers, bus-bar system, pen stock, turbine, phases visually.





Vertical Francis Turbine





Details of Generator and Turbine used in Nagarjuna sagar



Bus bar system





Bus bar system



Pumped Storage Plant Model

Pumped storage hydropower (PSH) is a type of hydroelectric energy storage. It is a configuration of two water reservoirs at different elevations that can generate power as water moves down from one to the other (discharge), passing through a turbine. The system also requires power as it pumps water back into the upper reservoir (recharge). PSH acts similarly to a giant battery, because it can store power and then release it when needed.



Students Visited the Power plant

S.no	Roll No	Name of the Student	Signature
1.	1601-22-766-001	NARASIMHULU	shud
2.	1601-22-766-002	BEEMARI PRANESH	Re-
3.	1601-22-766-003	AZKA IHTESHAM UDDIN AHMED	Adla
4.	1601-22-766-004	MARAPALLY SAI CHARAN	charach
5.	1601-22-766-005	SUNKARI SRILATHA	Barl
6.	1601-22-766-006	BOLLE SHIRISHA	Reg
7.	1601-22-766-007	DEVSOTH SRINIVAS	Sein
8.	1601-22-766-008	SANGEETHA BACHALA	Bregarin



CONCLUSION

We are thankful for the Management, Principal-CBIT (A), Professor Balasubba Reddy-HoD and faculty members EEE Dept. for making the Industrial visit successful.

We hope to get more chances further to have such an informative and wonderful experiences of visiting different industries.

P. Hemeshwar Chary,

Assistant Professor,

EEE Dept.

N-L

N. Santosh Kumar, Assistant Professor,

EEE Dept.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Affiliated to Osmania University)
GANDIPET, HYDERABAD – 500 075



CERTIFICATE

This is to certify that the disseration work entitled "Design and Analysis of Resonant Converter for EV applications" was submitted to CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, in partial fulfilment of the requirements for the award of Master of Engineering in Power Systems and Power Electronics, during the academic year 2021-2023, is a record of original work done by KHAJA IZHARUDDIN (Roll no.160121766001) during the period of study in the department of EEE, CBIT, HYDERABAD, under our supervision and guidance.

Project Guide

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CERTIFICATE

This is to certify that the dissertation work entitled "PERFORMANCE COMPARISON OF THREE PHASE INDUCTION MOTOR USING SYMMETRICAL AND ASYMMETRICAL SEVEN LEVEL INVERTERS" is a bonafide work done and submitted by P. PRADEEP KIRAN bearing hall ticket no. (160121766003), in partial fulfillment of the academic requirement for the award of Master of Engineering in EEE with Power Systems & Power Electronics as specialization to the Department of Electrical and Electronics Engineering C.B.I.T, Hyderabad during the period 2021 – 2023.

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This is to certify that the dissertation work entitled "MODELLING AND CONTROL OF DOUBLY FED INDUCTION GENERATOR FOR WIND POWER" is a bonafide work done and submitted by M. VINAY KUMAR bearing hall ticket no. (160121766004), in partial fulfillment of the academic requirement for the award of Master of Engineering in EEE with Power Systems & Power Electronics as specialization to the Department of Electrical and Electronics Engineering C.B.I.T, Hyderabad during the period 2021 – 2023.

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Department of Electrical and Electronics Engineering

CERTIFICATE



This is to certify that the dissertation work entitled "DESIGN AND DEVELOPMENT OF AXIAL FLUX COMPACT PM WIND GENERATOR" is a bonafide work done and submitted by H.PRAVEEN bearing hall ticket no.(160121766005), in partial Fulfillment of the academic requirement for the award of Master of Engineering in EEE with Power Systems & Power Electronics as specialization to the Department of Electrical and Electronics Engineering C.B.I.T, Hyderabad during the period 2022 -2023.

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CERTIFICATE

This is to certify that the dissertation work entitled "CONTROLLING OF SOLAR BASED ELECTRIC VEHICLE CHARGING STATION THROUGH INTELLIGENT CONTROLLER FOR V2G AND G2V MODES" is a bonafide work done and submitted by K.VINOD KUMAR bearing hall ticket no. (160121766006), in partial fulfillment of the academic requirement for the award of Master of Engineering in EEE with Power Systems & Power Electronics as specialization to the Department of Electrical and Electronics Engineering C.B.I.T. Hyderabad during the period 2021 - 2023.

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