

2021 – 22



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Department Best Practices – Teaching & Learning

Department of Electrical and Electronics Engineering with the effective functioning of all the faculty members have always tried to impart innovative teaching methodologies to ensure that students are always given an opportunity to learn the technical, cognitive and employability skills at every stage of their Engineering course through Innovative Classroom Teaching [ICT] techniques.

Here, students are made in to groups and the batch wise presentations are conducted on a regular basis to all the students of Final year and Third year apart from the commonly implemented methods like Experienced Learning sessions conducted in Laboratories, Participative Teaching done through students, flip classroom concept where faculty will listen to students and then emphasize on the concept much deeper, Article reading by students on the concepts dealt in classroom previously, conducting seminars, Newspaper readings, repeating difficult topics by topper students, field visits, Industrial visits, pictorial demonstration and many more activities.

It was a clear observation that more the number of sessions conducted with the above-mentioned concepts, better were the results obtained every semester.

Some of the glimpses of these strategies employed by EEE Department are shared in this document:

Participatory & Experiential learning in Teaching and Evaluation methods

2020-21:

In this academic year, the department planned to improve the communication skills of the students and several activities conducted which involves all the students in a right direction towards their goals.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SPARKS CLUB ACTIVITY

Creative Skills – Activity – 05-02-2020

Date of Event	: 05-02-2020
Venue	: LH 34
Time	: 1:30 pm to 4:00 pm
Beneficiaries	: III EEE
No of Participants	: 93
Organized by	: EEE Department SPARKS CLUB



Brief Summary:

This activity organized by SPARKS club was an initiative to polish the inherent creative skills of students where every participant is given an instruction to solve a problem with specified number of steps on the board while the remaining team members had to take the pictorial task forward which enhances the student's vocabulary and creative thinking.



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SPARKS CLUB ACTIVITY

Communication Skills – Activity – Role Play

Date of Event	: 28-01-2020
Venue	: Seminar Hall – 2
Time	: 1:30 pm to 4:00 pm
Beneficiaries	: IV EEE
No of Participants	: 89
Organized by	: EEE Department SPARKS CLUB

Brief Summary:

As a part of our Sparks club activity, today we have conducted two acts (Role Play & Contraptions) in which 3 teams have participated with a test of Spontaneity, Leadership skills and innovative ideas. 18 Students have effectively made use of this activity in front of the remaining 70 odd students. This process was monitored by Mr A KRISHNA NAG, Associate Professor - EEE



As a part of the EEE department activities, Professional connectivity & mode of teaching methods evaluation procedures discussed with the academic team and implementation of the same in the department.

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CIRCUIT BUILDING

Date of Event	: 04-04-2020
Venue	: Electrical Circuits & Measurements Lab
Time	: 1:30 pm to 4:00 pm
Beneficiaries	: II & IV EEE
No of Participants	: 123
Organized by	: EEE Department SPARKS CLUB

Brief Summary:

Under EEE Department SPARKS club, IV Btech EEE students have taken an initiative to train their juniors from II B.Tech EEE to build mini circuits which would enhance their laboratory performing skills. Minor circuits were given to a few batches and the same are to be solved without getting any errors while supply is given to circuit.



Innovative teaching methods explores the students intellectual property with building the concepts visually among the students that which helps them to train their minds towards research and academic excellence.

During COVID Phase

During this phase though it is tough time to explore the academic excellence, The EEE department took an challenging role to contribute their academic knowledge transfer to their students in virtual mode .



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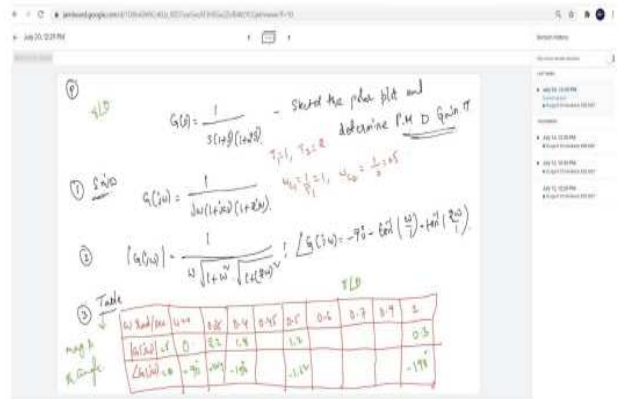
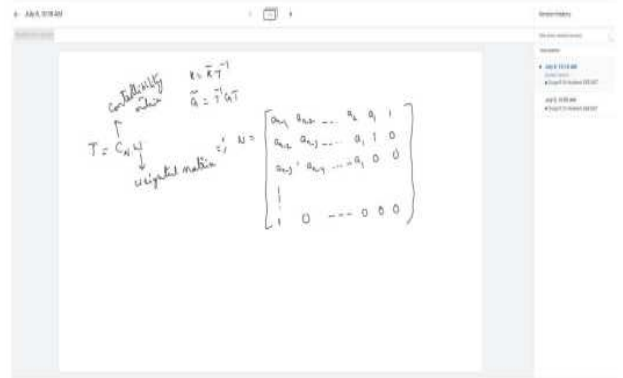
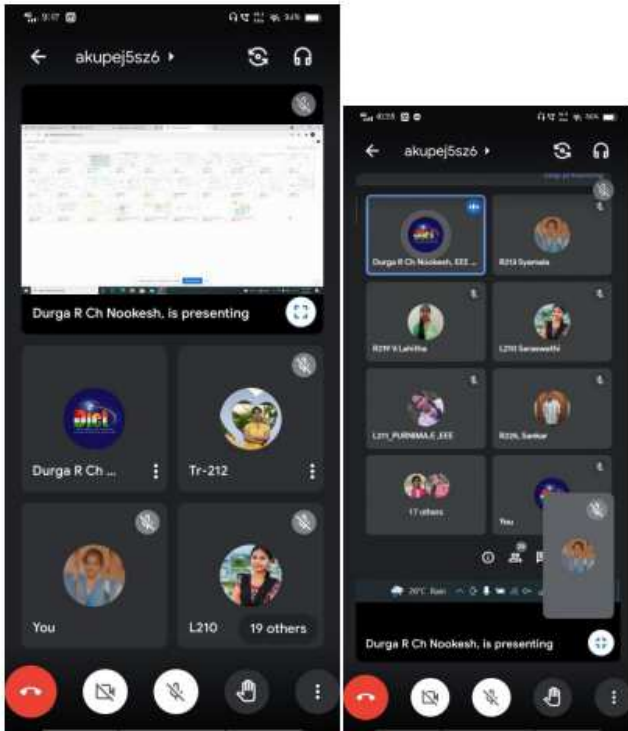
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Jam boards used:

For DCS

https://jamboard.google.com/d/1O6ioGM5CnKlb_9ZD7zarGvcAT3H5Gu2ZofbW2YCGjxl/viewer?f=4

For CS

<https://jamboard.google.com/d/1jppUCcciu3ZH5UW5otLO40CO-onzfOE36TeBQoOIBI/viewer?f=0>

For PS-II

https://jamboard.google.com/d/1MErIMgz_9lVrIwEckA20Ywk3jUk4M4j8YOTB9gfkWc/viewer?f=0

Assignment on unit 5(State Space Anal... 1

Due Jul 18

Posted Jul 16

Submit this assignment with in two days.

0
 Turned in

35
 Assigned

43
 Graded

Feel Free to ask doubts if any to submit Assignment

WhatsApp Image 2021-0...
Image

1 class comment

[View assignment](#)

DUTIES PERFORMED DURING COVID 19

A. LAKSHMI DURGA, Assistant Professor,
EEE October 2020

I. Class work Report:

Subject1: IV Year B.Tech EEE-A (Instrumentation) Strength:45

S.No	Date	Class/Yr/Section/Branch	Time	Topic Covered	Present
1	26-09-2020	IV B.Tech EEE-A	2.30PM to 3.10PM	Velocity Measurement	36/45
2	28-09-2020	IV B.Tech EEE-A	11.30AM to 12.20PM	Angular Velocity	40/45
3	29-09-2020	IV B.Tech EEE-A	9.50 AM to 10.40 AM	Accelerometer	36/45
4	30-09-2020	IV B.Tech EEE-A	11.30AM to 12.20PM	Potentiometric Accelerometer	34/45
5	01-10-2020	IV B.Tech EEE-A	9.50 AM to 10.40 AM	Measurement of strain	34/44
6	03-10-2020	IV B.Tech EEE-A	2.30PM to 3.20PM	Measurement of Flow	36/45

Subject2: IV Year B.Tech EEE-B (Instrumentation) Strength:44

S.No	Date	Class/Yr/Section/Branch	Time	Topic Covered	Present
1	26-09-2020	IV B.Tech EEE-B	9.00AM to 9.50AM	Velocity Measurement	35/44
2	28-09-2020	IV B.Tech EEE-B	9.00AM to 9.50AM	Angular Velocity	35/44
3	29-09-2020	IV B.Tech EEE-B	2.30PM to 3.10PM	Accelerometer	36/45
4	30-09-2020	IV B.Tech EEE-B	3.20PM to 4.10PM	Potentiometric Accelerometer	34/45
5	01-10-2020	IV B.Tech EEE-B	11.30AM to 12.20PM	Measurement of strain	34/44
6	03-10-2020	IV B.Tech EEE-B	9.00AM to 9.50AM	Measurement of Flow	36/45



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2021-22

Industrial Visits & Internships:

Exposure and Field Visit to NSTL-DRDO VIZAG

Students from IV BTech and III BTech EEE were taken to a two-day Open House Expo-2022, organized as a part of National Science Day, at Naval Science and Technological Laboratory, Ramnath Secondary School, located in NSTL campus, on Fri-Sat [25th-26th Feb 2022].



Department of EEE, Dadi Institute of Engineering & Technology has successfully organized a field visit to “NSTL-DRDO VIZAG” for students. This was conducted to know the latest technologies used by the Defense forces. NSTL-DRDO VIZAG the Naval Science and Technological Laboratory is an Indian Defense laboratory of the Defense Research and Development Organization, located in Visakhapatnam. Its main function is the research and development of underwater weapons and associated systems. NSTL is organized under DRDO's Directorate of Naval R&D. This has motivated all enthusiastic students to utilize this opportunity and know about the technologies used in the Defense forces.



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EEE Student actively taking part in Project Expo at NSTL - DRDO

Objective of this visit was to create an environment for exploring innovative technologies used in the ships & submarines and also to nurture and help students in promoting their ideas to next level. It was observed that Students have gained confidence in generating and promoting their ideas used in the torpedoes. Faculties were able to select students who are innovative and guided them to build their ideas.



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Internship at [RINL] Steel Plant, Vizag and BHEL, Vizag





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Students Taking part in the Internship at Steel Plant





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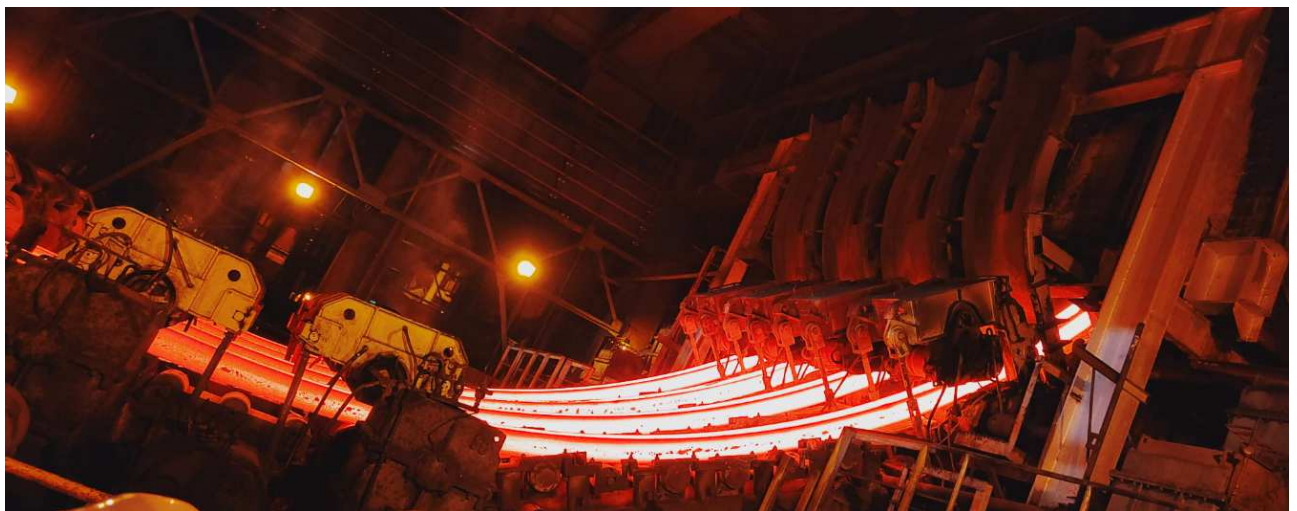
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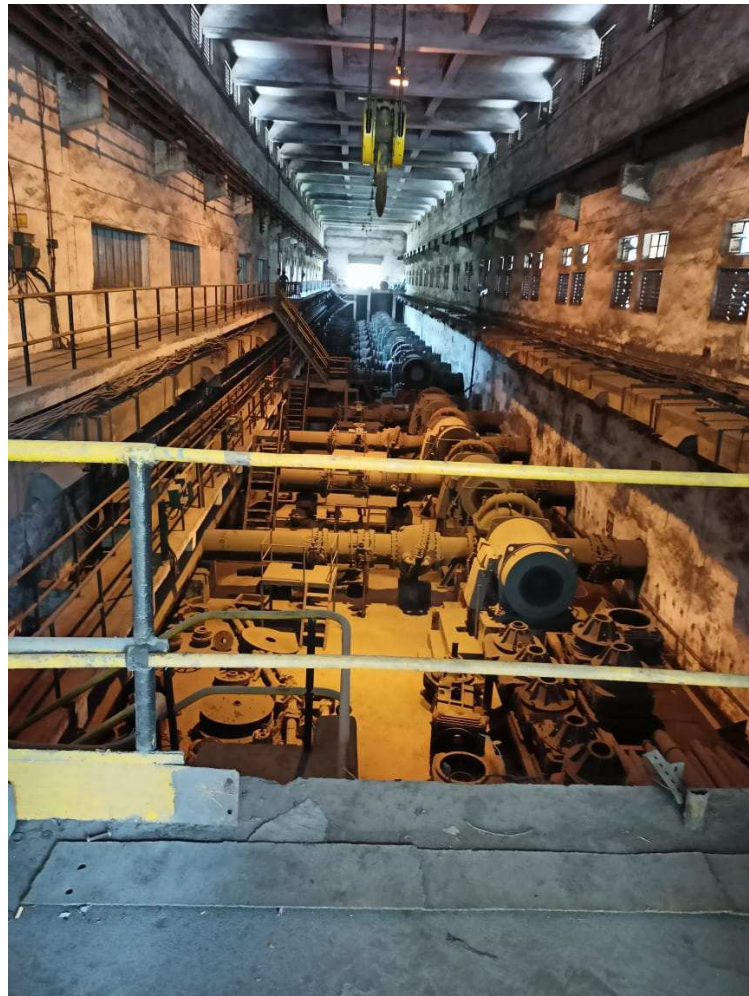
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Merit Student Sessions:

Faculty encouraging merit students to clarify conceptual doubts of weaker students



Newspaper Reading

Students reading newspaper articles every day for sharing of knowledge on current affairs



Student Seminars using Power point presentations



Role Play

Students taking part in role play activity of Interviewer-Interviewee





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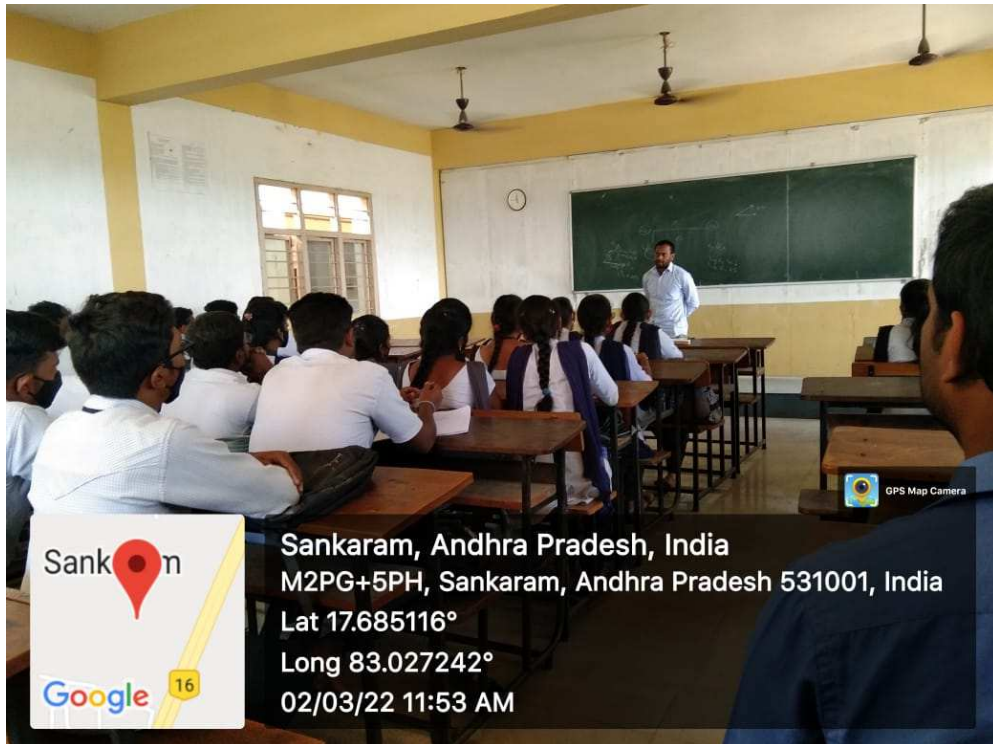
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Alumni Interaction



Alumni Interaction with Final year BTech Students



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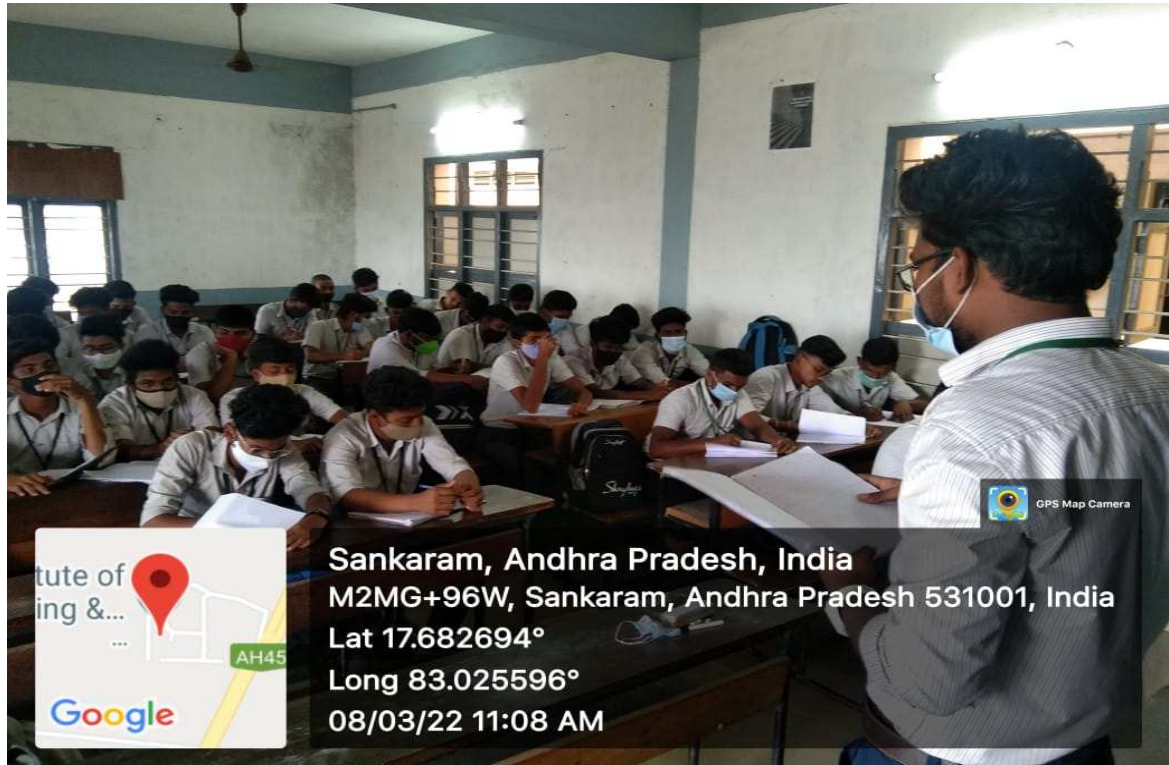
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Technical Narration Activity by Students



Idea Exchange Contest among students



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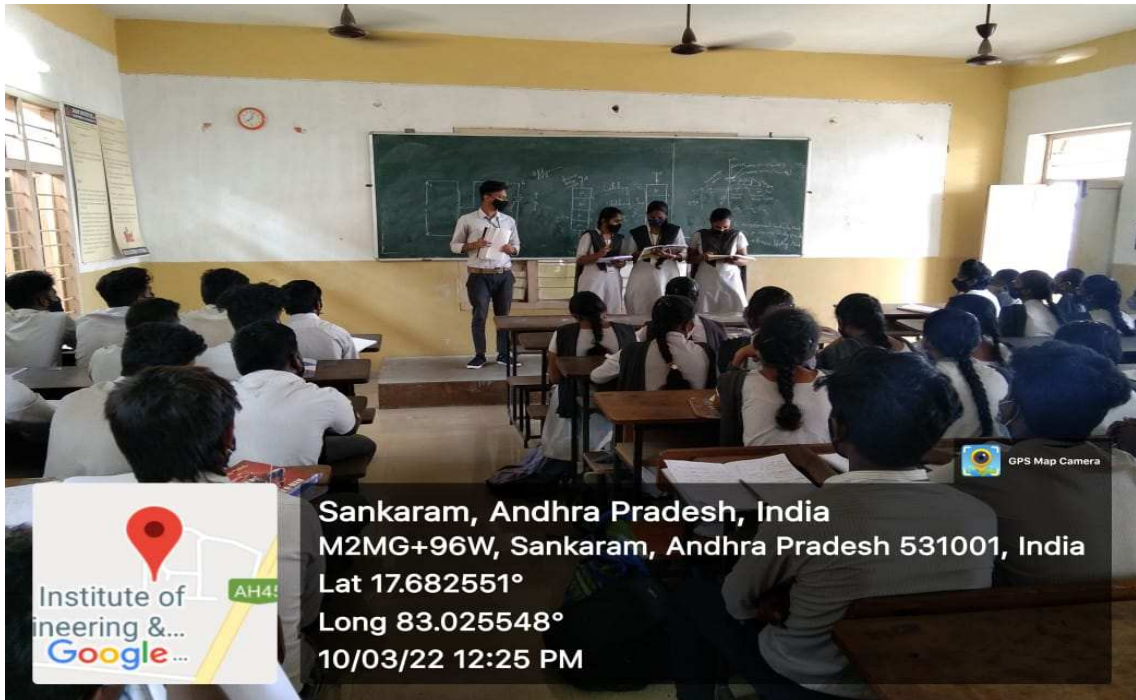
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Memory Contest for Student Teams



Pictorial Explanation of Technical Concepts





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Group Discussion Activity





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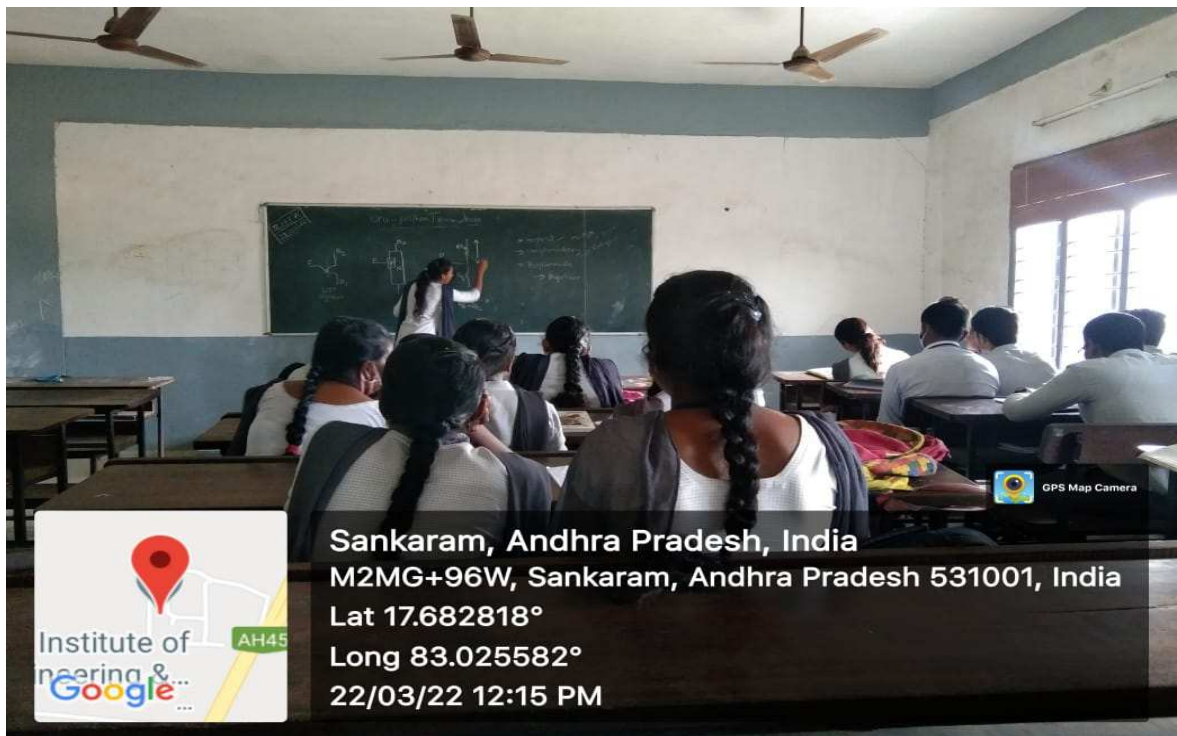
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Student Seminars in class





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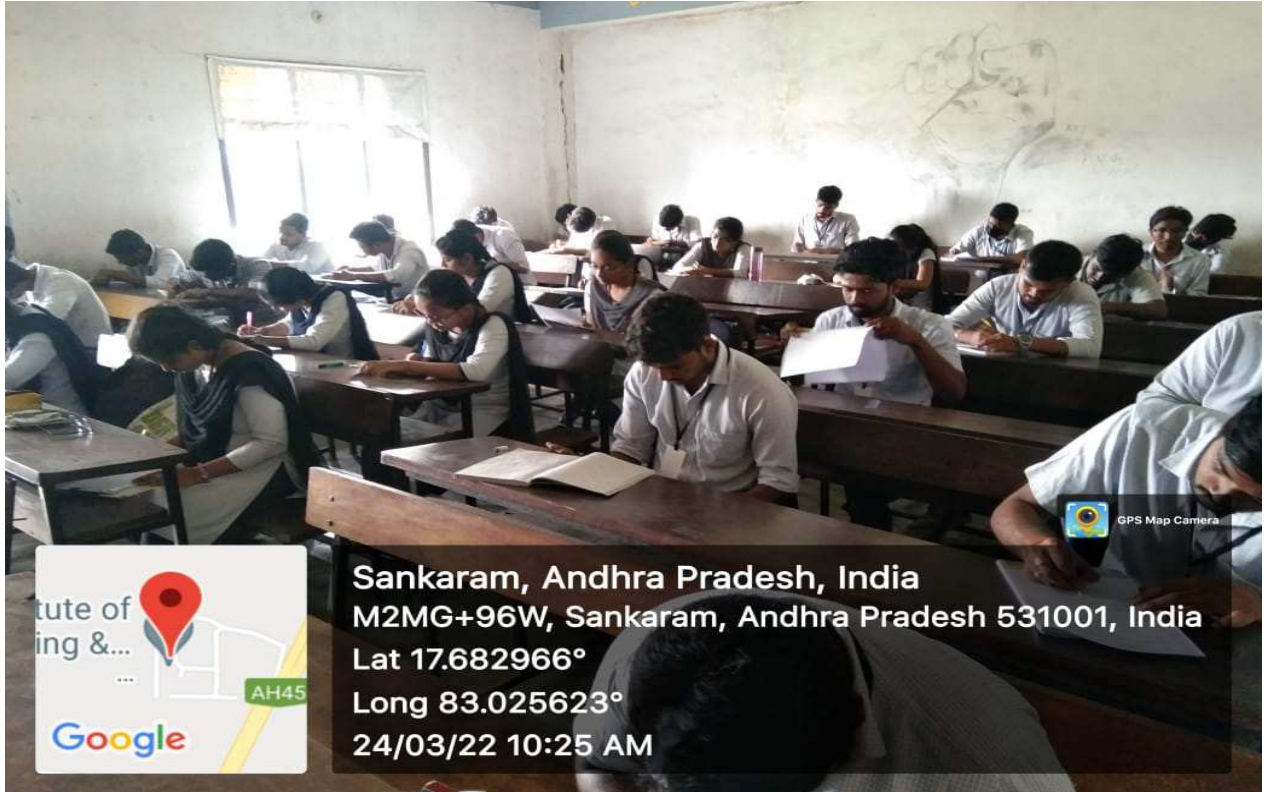
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Technical Essay Writing Competition





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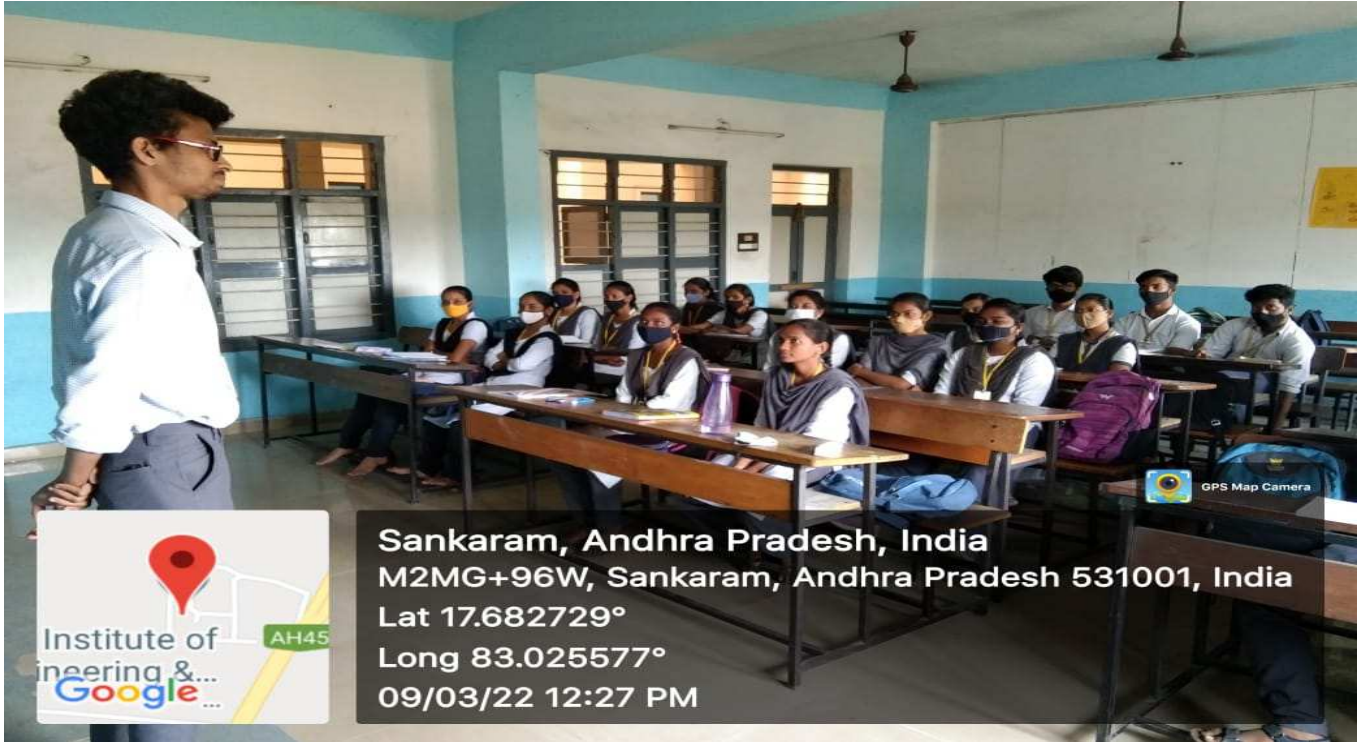
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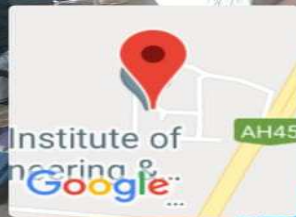
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Sankaram, Andhra Pradesh, India
M2MG+96W, Sankaram, Andhra Pradesh 531001, India
Lat 17.682729°
Long 83.025577°
09/03/22 12:27 PM

Extempore & Elocution Activity for Students



Sankaram, Andhra Pradesh, India
M2MG+96W, Sankaram, Andhra Pradesh 531001, India
Lat 17.682829°
Long 83.025674°
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Public Speaking Contest among Students



Faculty using Power Point Presentation for Skilled Sessions





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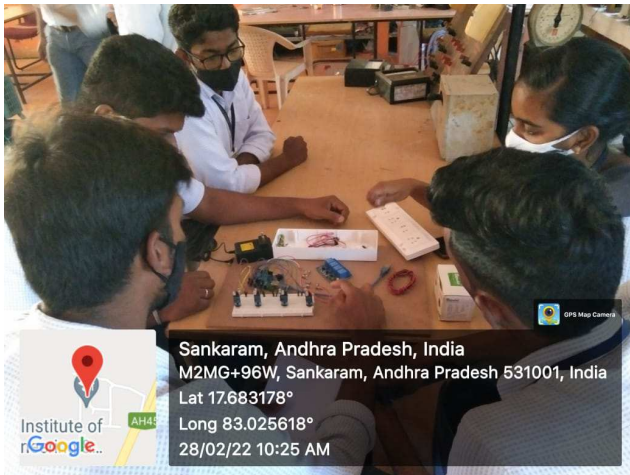
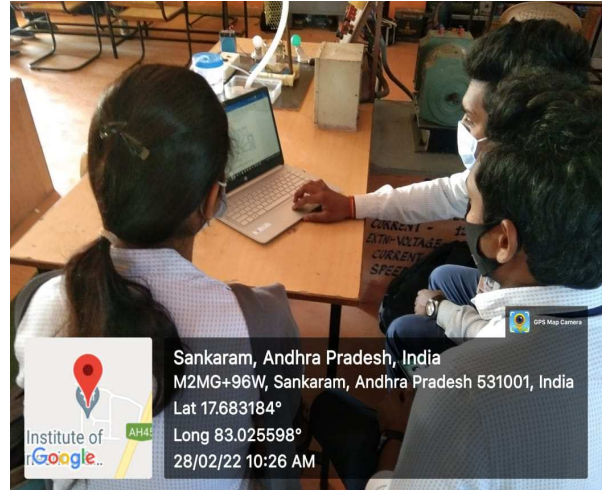
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Experiential & Project Based Learning with practical experimentation





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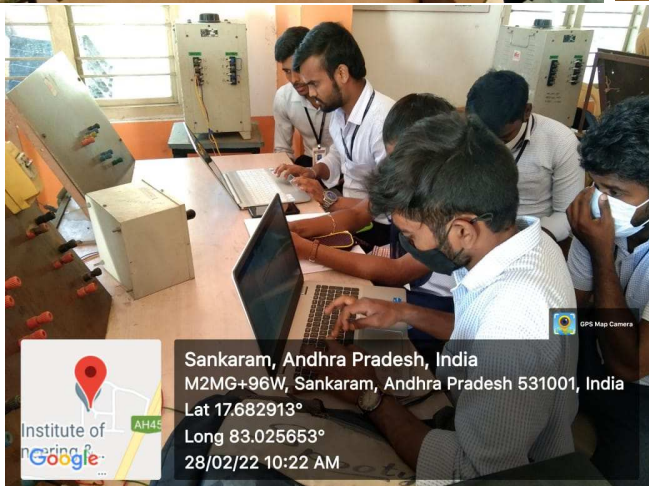
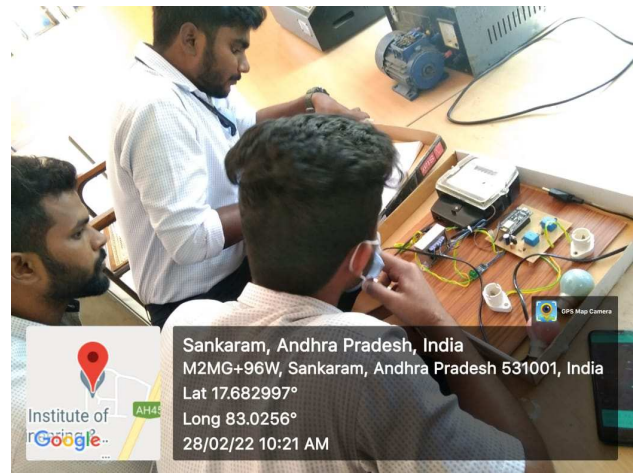
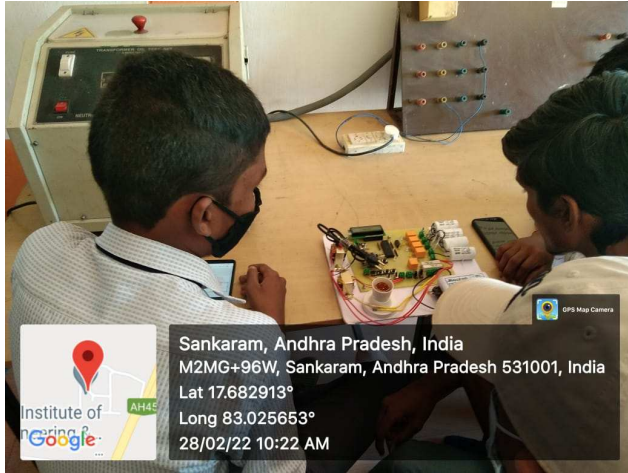
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Student Participation in Employability Skill Sessions





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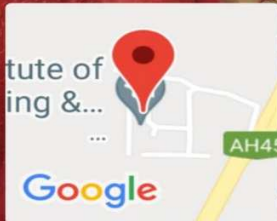
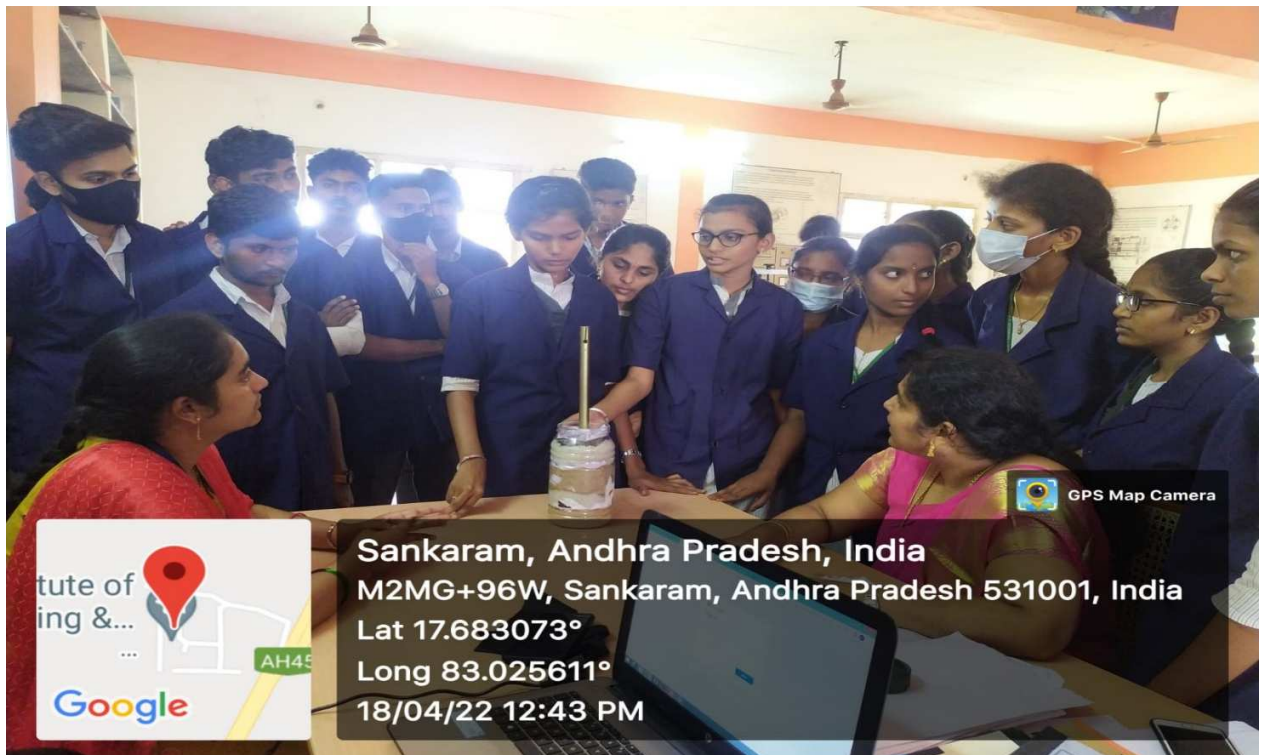
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Hands-on Training to students by faculty



Energy Audit Guidelines to Students



Sankaram, Andhra Pradesh, India
M2MG+96W, Sankaram, Andhra Pradesh 531001, India
Lat 17.683073°
Long 83.025611°
18/04/22 12:43 PM

Practical Explanation of Electrical Safety Concepts

MINI PROJECTS - [Domestic Energy Audit by students]

Sample Report of IV B Tech Student of EEE

Date: 24-11-2021

Student Name: KARRI MAHESH

Roll No: 18U41A0221

Batch/Year/Class/Sem: IV B-Tech EEE-A section (4-1 semester)

Aim: To conduct Domestic Energy Audit & Consolidate the Monthly Electricity Bill pattern.

Meter Number: 120966

Bill Number: 2020102887

Present Meter Reading: 10792 kWh

Past three months Billing Pattern:

August 2021 - Rs. 544

September 2021 - Rs. 473

October 2021 - Rs. 448

Metering & Name Plate Details:



Hence, It is observed from the three months' billing pattern and the table obtained in the audit report that use of energy conservation devices and careful use of electricity will save energy and money spent for meeting the domestic household electricity needs



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Domestic Energy Audit Report						
Place	S No	Name of the Appliances	Quantity	Company	Year of Manufacture	Ratings
Living Room (Hall)	1	Tube light	1	Syska LED	2020	18W
	2	Fan	1	Butterfly	2018	70W
	3	LED lights	2	Philips	2016	10W
	4	LED TV	1	MI	2020	75W
	5	Dish Box	1	Willett	2020	12W
	6	Refrigerator	1	Samsung	2018	249W
Bed Room	7	Tube light	1	Osram	2018	36W
	8	LED light	2	Excelite	2020	15W
	9	Air Conditioner	1	Voltas	2020	1750W
	10	Stabilizer	1	Microtek	2020	170v~240v 5%
Kitchen	11	Iron box	1	Usha	2019	1000W
	12	LED light	1	Delp	2016	9W
	13	Electric cooker	1	Sansui	2019	700W
	14	Induction stove	1	Prestige	2018	1200W
Lawn	15	Mixer grinder	1	Mexicon	2019	750W
	16	Washing Machine	1	Intex	2018	520W+190W
	17	LED lights	3	Delp	2016	9W

Living Room = 434W Bed Room = 2971W Kitchen = 2659W Lawn = 719W
Total = 6783W ~6.783kW

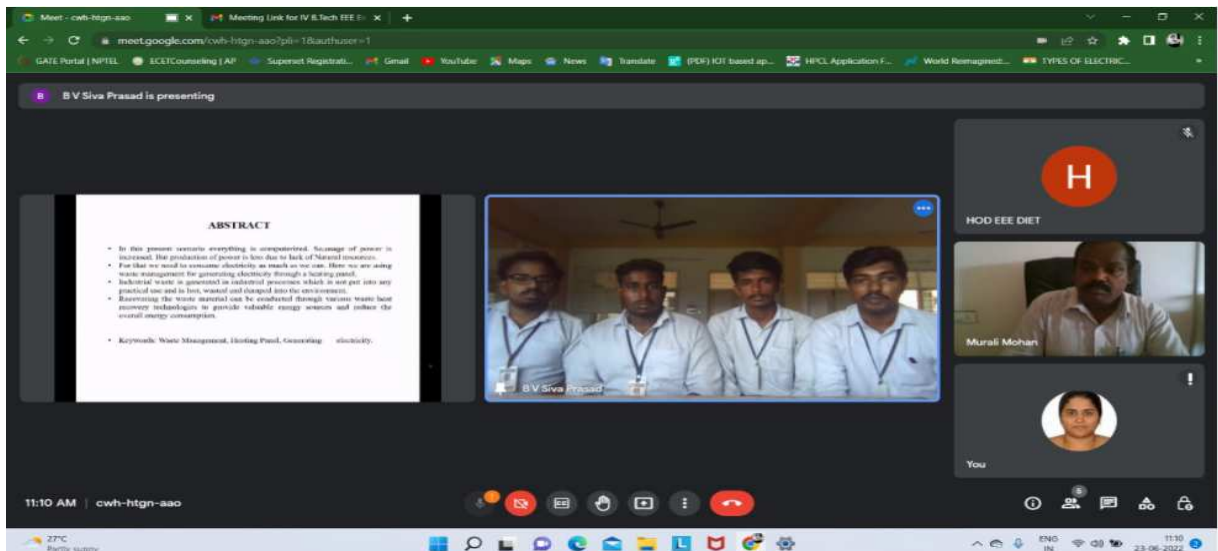
EASTERN POWER DISTRIBUTION COMPANY OF A.P. LTD
PAYMENT RECEIPT
(ORIGINAL)
25-10-2021 11:48:00
T: 13E86281143 RC: 13
002 MUNAGAPAKA
T: 20201, MUNAGAPAKA
M NO: 20201 02867
E: KIRRI, VENKATA NAGES
AMT(10/21) 473.00
AMT 0.00
AMT 0.00
AMT 0.00
AMT 0.00
AL AMT 473.00
PAYMENT MODE: CASH
AUTHORIZED SIGNATORY

FIXED CHARGES: 10.00
CUSTOM CHARGES: 45.00
ED CHARGES: 9.66
S.F. AMOUNT: 0.00
LATE PAYMENT FEE: 0.00
TRUE UP CHG: 0.00
BILL AMT: 544.00
ARREARS: 0.00
NET AMT: 544.00
A.C.D 0.00
LAST PAID DT: 25-OCT-21
LAST PAID AMT: 473.00
DUE DATE: 30-11-2021
DISC DATE: 15-12-2021
TCSEALNO:
ERO CODE: 002
ERO NAME: munagapaka

EASTERN POWER DISTRIBUTION COMPANY OF A.P. LTD
MONTHLY DEMAND
BILL NO: 13E864059
EROCODE: 002 SROCODE: 2
GROUP: CYCLE
DT: 08/11/2021 TH 01:38
SICNO: 26201 02867
NAME: KIRRI, VENKATA NAGES
ACCODE: 20201 ADDR: MUNAGAP
ADDRESS: 570 ADINAKATANA
ADDRESS: MUNAGAPAKA
CAT: 1 SUBCAT: 01 PH: 1
LOAD: 1.00
STRCODE:
POLE NO:
PRES: 10730 00 11/21 01
PREV: 10560 00 10/21 02
UNITS: 161 AWD: 161
METER NO: 54700? CAP: 3A1F04
NAME:
METER CHARGE: 479.00

RECS KASIMKOTA
PAYMENT RECEIPT
(ORIGINAL)
25-08-2021 11:30:42
T: 13E86281011 RC: 13
002 MUNAGAPAKA
T: 20201, MUNAGAPAKA
M NO: 20201 02867
E: KIRRI, VENKATA NAGES
AMT(8/21): 443.00
AMT 0.00
AMT 0.00
AMT 0.00
AMT 0.00
AL AMT 443.00
PAYMENT MODE: CASH

Internal & External project reviews for IV EEE Students



Awareness session Drive on Energy Savings





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Research Contribution

In view of recent trends in experiential & participatory learning towards research, Department of EEE organized sufficient programs through functional Committees and E-spark club. As a result the students of EEE published their research work in reputed journals and conferences. The blended mode of education explored the efficiency of the students in all aspects particularly in research. As a token of continuous efforts from faculty & students The department released a Book series named **PEER (Projects on Electrical Engineering Projects-edition 2022)** which was published on **May 21, 2022 with ISBN No; 9781005575649.**

Smashwords - PEER (PROJECTS ON ELECTRICAL ENGINEERING RESEARCH -- a book by Department of EEE DIET

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By Department of EEE DIET

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Reviews of PEER (PROJECTS ON ELECTRICAL ENGINEERING RESEARCH by Department of EEE DIET



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Advanced Teaching & Learning Strategy

As per the academic committee resolutions, The institute has taken an initiative to upgrade the teaching and learning process to next level by implementation of Teachers diary with continuous STLP/STLRP checking to improve the quality of education. We will assess the Student with the following steps.

Step 1: After two weeks of semester, take an assessment test -1 as per the instructor choice of assessment like assignment, quizzes, Role play, presentation etc.

Step 2: The assessment done based on the 10 points:

1. Student Interaction/Learning & Problem Solving Skills: 3 M
2. Test 1: 3M
3. Assignment: 2M
4. Student Attitude: 2M

Step 3: Based on the marks, initial analysis done on the student understanding level.

Step 4: The same assessment done before & after Mid Internal examinations to identify the students for slow learner / fast learner programs.

Step 5: Action Plan for slow learners and fast learners implemented such as remedial /Gate/CRT classes.


Step 6: Allocation of revision schedule for examination preparation.

Step 7: Conduction of Backlog Classes for students to boost up the students to be benefited.

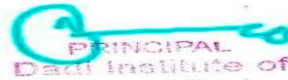
This strategy implemented for 2021-22, The Sample files attached here for reference:

[Teacher's Dairy DCS- Slow Learners& MID Assesment - Google Sheets](https://classroom.google.com/c/NDc4MTc5MDY1MjAz?cjc=vqqnrbq)

<https://classroom.google.com/c/NDc4MTc5MDY1MjAz?cjc=vqqnrbq>


Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

HoD


PRINCIPAL
Dadi Institute of
Engineering & Technology
ANAKAPALLE - 531 002

Principal



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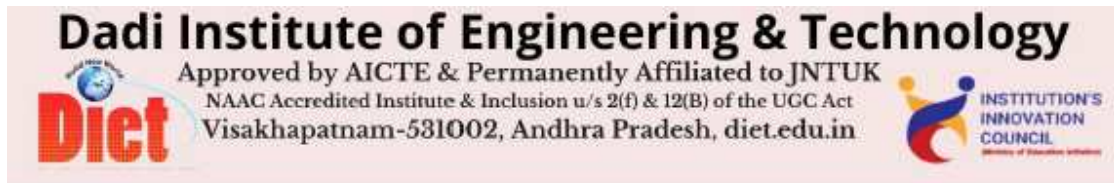
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2.3.1 : EXPERIENTIAL AND PARTICIPATORY LEARNING

Field trips



Department of Electronics & Communication Engineering “Exposure and Field Visit to NSTL-DRDO VIZAG” Report

Industry Visited: Naval Science and Technological Laboratory (NSTL)-DRDO, NAD Junction, Visakhapatnam

Chief Patron : Sri Dadi Ratnakar, Chairman
Patron : Dr. Challa Narasimham, Principal
Conveners : Dr. K. Sujatha, Professor, R&D Convenor
Dr.P.Poorna Priya , Associate Professor, HOD-ECE.
Coordinator : Mrs.Archana B. T., Assistant Professor, ECE Dept.
Date : 25 February, 2022

Department of Electronics and Communication Engineering, Dadi Institute of Engineering and Technology organized a visit to Naval Science & Technological Laboratory (NSTL), Visakhapatnam in view of science day celebrations. The visit was scheduled on 25th February 2022. Electronics & Communication Engineering students from final year and third year joined the visit. Around 10.45am we reached NSTL, initially students were introduced to various products developed by NSTL through a video presentation. This session gave an outline about Torpedo's(9E18), Torpedo Advanced Light (TAL), anti-submarine torpedo Varunastra, Advanced Torpedo Defence System 'Maareech', Decoys (Expandable and Mobile), Mines (Ground, Moored, and Multi-influence). There after students were directed to Rannath Secondary school, where exhibition of NSTL products and the weapons they developed for Indian Navy were displayed.

Objective of the Event

- To provide a technical exposure to students about advancements in technology
- To provide awareness about the quality of research happening in defence area and the future career prospects.

Overview

Mr.MahaTeja Ganesh (19U41A0413) and Mr.P.Durga Prasad (19U41A0427) of III B.Tech ECE were selected for exhibiting their project at NSTL, as part of the National Science Day Celebrations. They presented their project Automatic Engine Locking System through Alcohol Detection which meets the theme "Innovation for Social Benefits". Students had a chance to interact with scientist like Mr.Shyju John and Ms.Pushpa who guided our students in understanding the concepts of:

- **Torpedo Advanced Light(TAL)**- submarine weapon that can be launched from ship and aircraft
- **Advanced Light Weight Torpedo(ALWT)**-developed by NSTL which can be launched from air.This torpedo can sustain its efficiency in particular manoeuvrability and structural integrity while traveling from air to water
- **Mareech**- It is an Advanced Torpedo Defence System (ATDS) which is capable of providing a reliable defence mechanism against a possible torpedo attack by both detection and counter measure capability
- **Varunastra**- heavy weight electrically propelled anti-submarine torpedo capable of targeting in deep and shallow waters in an intense counter measure environment
- **Autonomous Underwater Vehicle(AUV)**-AUV are designed for condition monitoring of underwater assets, track and identify target and destroy enemy

Faculty coordinator Mrs.Archana B.T interacted with Mr.Rajasekhar, Regional mentor for ATAL Tinkering Labs. The motto behind establishing ATAL Tinkering Labs is to bridge the gap between schools and professional Institutions. The objective of ATAL Tinkering Labs is to foster curiosity, creativity, and imagination in young minds; and inculcate skills such as design mind set, computational thinking, adaptive learning, physical computing etc.

LIST OF STUDENTS FOR NSTL VISIT		
S.NO	ROLL NUMBER	NAME OF THE STUDENT
1	19U41A0404	B SREE SOWMYA
2	19U41A0412	KOSURU GAYATHRI DEVI
3	19U41A0415	MALLA MOHANA PRATHYUSHA
4	19U41A0420	PAPPULA JYOSHNA
5	19U41A0423	PENTAKOTA LIKITH
6	19U41A0425	PILAKA UGRA NARASIMHA BHARATH
7	19U41A0428	ULLI KOMALI
8	19U41A0430	VOODA MEGHANA
9	20U45A0402	BODDAPU KUMAR
10	20U45A0404	DEVADULA SRI SAI SAMPATH
11	20U45A0411	MADAM VENKATA SAI SNEHIT
12	20U45A0413	NAGAM VIDHYA SREE
13	20U45A0414	NAKKA VIJAYA
14	20U45A0417	REGIDI SAMPATH KUMAR
15	20U45A0421	UDDAGIRI USHODAYA

16	20U45A0424	SRIRANGAM SRILEKHA
17	18U41A0407	BOTTA BALAJI
18	18U41A0413	SANDRANA ROOPA
19	18U41A0403	V BINDU
20	18U41A0455	MANDAPATI PAVITHRA
21	18U41A0458	ADARI BHARGAVI
22	19U45A0419	KARRI JAYASRI
23	19U45A0418	KANTAPUREDDI LOKESH
24	19U45A0428	NEMALA KUSUMA PRIYA
25	19U45A0434	SANAPATI JANAKI
26	19U45A0431	FILLA REVATHI
27	19U45A0429	P YAMINI
28	19U45A0404	B SRAVANI

Summary

Students thoroughly enjoyed and utilised the opportunity to interact with NSTL staff. They enthusiastically mingled with other college students, to get an idea about the technology they used in developing their project. ECE department students Mr.M.MahaTeja Ganesh and Mr.P.Durga Prasad were appreciated by NSTL scientist and advised them to extend their project to develop as an industry ready product. This exposure helped the ECE students in relating topics like Radar Systems, SONAR, Oscillators, Signal Processing, Microcontrollers etc. which was part of their curriculum to real life scenarios. Students expressed their gratitude towards Principal Dr.ChallaNarasimham, R&D Convenor Dr.K.Sujatha, Head of the Department Dr.P.Poorna Priya and the management for providing such an opportunity.

**Exposure & Field Visit to NSTL -DRDO,
Visakhapatnam**
organized by
Department of Electronics & Communication Engineering

Date: 25 February 2022

Dr.P Poorna Priya
Convener

Dr K. Sujatha
R&D Convener

Dr. Challa Narasimham
Principal

Sri Dadi Ratnakar
Chairman

Poster for Exposure and Field Visit to NSTL-DRDO VIZAG



Students and Coordinators at Dadi Institute of Engineering and Technology



NSTL visit by third and final year ECE students



ECE students MahaTeja Ganesh and P.Durga Prasad presenting project titled Automatic Engine Locking System through Alcohol Detection

Dadi Institute of Engineering & Technology



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DEPARTMENT OF EEE “Exposure and Field Visit to NSTL-DRDO VIZAG” Report

Industry Visited: Naval Science and Technological Laboratory (NSTL)-DRDO, NAD Junction, Visakhapatnam

Chief Patron: Sri Dadi Ratnakar, Chairman

Patron : Dr. Challa Narasimham, Principal

Conveners : Dr. K. Sujatha, Professor, R&D Convenor

Mr.A. Krishna Nag, Associate Professor, HOD-EEE.

Coordinator: Mr. P. Raghavendra Rao, Assistant Professor, EEE Dept.

Date : 25 February, 2022

Department of EEE, Dadi Institute of Engineering & Technology has successfully organized a field visit to “NSTL-DRDO VIZAG” for students. This was conducted to know the latest technologies used by the Defence forces. NSTL-DRDO VIZAG the Naval Science and Technological Laboratory is an Indian defence laboratory of the Defence Research and Development Organization, located in Visakhapatnam. Its main function is the research and development of underwater weapons and associated systems. NSTL is organized under DRDO's Directorate of Naval R&D. This has motivated all enthusiastic students to utilize this opportunity and know about the technologies used in the Defence forces.

Objectives:

- To create an environment for exploring innovative technologies used in the ships and submarines.
- To nurture and help students in promoting their Ideas to next level.

Outcomes:

- Students have gained confidence in generating and promoting their Ideas used in the torpedoes.
- Faculties were able to select students who are innovative and guided them to build their Ideas.



Fig.1: Students accompanied by coordinators at DIET main gate



Fig.2: Entrance of Naval Science and Technological laboratory-DRDO Vizag

LIST OF STUDENTS VISITED

S N	Roll No	Student Name	Year/Section
1	18U41A0201	BODDEDA PAVAN SAI PRAKASH	IV EEE A
2	18U41A0203	DEEPHI MAHANTHI YAGNA SHIVA	IV EEE A
3	18U41A0204	SUNDARAPU INDU	IV EEE A
4	18U41A0205	DUNNA SRAVAN SIVA KUMAR	IV EEE A
5	18U41A0209	KOTHALA POORNA RAJESWARI	IV EEE A
6	18U41A0210	KUCHARLA PREM KUMAR	IV EEE A
7	18U41A0211	MADDALA LOKESH	IV EEE A
8	18U41A0212	PACHHIGOLLA PRASANNA KUMAR	IV EEE A
9	18U41A0213	PILLALA KALYAN CHAKRAVARTHY	IV EEE A
10	18U41A0214	RONGALI RAMYA	IV EEE A
11	18U41A0217	VILLURI KIRAN KUMARI	IV EEE A
12	18U41A0220	LALAM VANDANA	IV EEE A
13	18U41A0221	KARRI MAHESH	IV EEE A
14	19U45A0208	BOLIBOYINA PYDIRAJU	IV EEE A
15	19U45A0214	DADI PRAVEEN	IV EEE A
16	19U45A0216	GILAKAMSETTY MANOHAR SRI	IV EEE A
17	19U45A0220	JOGA SHYAMALA	IV EEE A
18	19U45A0222	KALEPU LIKITHA	IV EEE A
19	19U45A0233	MADDALA SAI SANTHOSH	IV EEE B
20	19U45A0250	PEDAPATI GNANENDRA KUMA	IV EEE B
21	19U45A0252	POLAMARASETTY POORNA SAI	IV EEE B
22	19U45A0253	RAAVI SATISH SEKHAR	IV EEE B
23	19U45A0257	SENAPATHI ANIL	IV EEE B
24	19U45A0263	SUNKARA LAXMAN RAO	IV EEE B
25	20U45A0210	SIRISHA	III EEE
26	20U45A0211	D RAVI TEJA	III EEE

27	20U45A0229	K CHANDRIKA	III EEE
28	20U45A0244	S SAI	III EEE
29	20U45A0246	S SAI GANESH	III EEE



Fig.8: Students with Faculty Coordinators at NSTL-DRDO, Vizag

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DEPARTMENT OF Civil Engineering “Exposure and Field Visit to NSTL-DRDO VIZAG” Report

Industry Visited: Naval Science and Technological Laboratory (NSTL)-DRDO, NAD Junction, Visakhapatnam

Chief Patron : Sri Dadi Ratnakar, Chairman
Patron : Dr. Challa Narasimham, Principal
Conveners : Dr. K. Sujatha, Professor, R&D Convenor
Mr. N. Ramu, Assistant Professor, HOD-CE
Coordinator : Mrs. B. Ramya, Assistant Professor, Civil Dept.
Date : 26 February, 2022

Department of Civil Engineering, Dadi Institute of Engineering & Technology has successfully organized a field visit to “NSTL-DRDO VIZAG” for students. This was conducted to know the latest technologies used by the Defence forces. NSTL-DRDO VIZAG the Naval Science and Technological Laboratory is an Indian defence laboratory of the Defence Research and Development Organization, located in Visakhapatnam. Its main function is the research and development of underwater weapons and associated systems. NSTL is organized under DRDO's Directorate of Naval R&D. This has motivated all enthusiastic students to utilize this opportunity and know about the technologies used in the Defence forces.

Objectives:

- Field visits are the way of enhancing classroom learning by making real world connections. These types of trips expose students to different places and eras.
- It creates awareness to students about the different innovative technologies.

Outcomes:

- Very good opportunity for students to interact with Experts.
- Develops confidence and helps to enhance their interpersonal skills.



Fig.1: Students accompanied by coordinators at DIET Campus



Fig.2: Entrance of Naval Science and Technological laboratory-DRDO Vizag



Fig 9: Exhibiting NSTL Products

LIST OF STUDENTS VISITED

S NO	Roll No	Student Name	Year/Section
1	19U41A0101	KALLA ANJALI	III BTECH
2	19U41A0103	SURISSETTY JYOTHSNA	III BTECH
3	20U45A0101	ADARI BARGAVA SAI KRISHNA	III BTECH
4	20U45A0102	ADARI GANESH	III BTECH
5	20U45A0104	BUDDHA VASANTHI	III BTECH
6	20U45A0105	DANDINA LALITHA	III BTECH
7	20U45A0106	GANDEPALLI GANESH	III BTECH
8	20U45A0107	GEDDAM SRAVANI JYOTHI	III BTECH
9	20U45A0108	KODAMANCHILI DEVI	III BTECH
10	20U45A0109	KOMARA LAKSHMANA RAO	III BTECH
11	20U45A0110	KOMARA SANKARA RAO	III BTECH
12	20U45A0111	KOVELA VARALAKSHMI	III BTECH
13	20U45A0112	LAKKOJI SRIDIVYA	III BTECH
14	20U45A0113	LALAM DORA BABU	III BTECH
15	20U45A0114	MAKIREDDI LOVAPRASAD	III BTECH
16	20U45A0115	MATHA KUSUMA	III BTECH
17	20U45A0116	PAILA VENITHADEVI	III BTECH
18	20U45A0117	PATNAIKUNI ESWAR SAI	III BTECH
19	20U45A0118	PAYALA CHANDRA KIRAN	III BTECH
20	20U45A0119	PEELA VARAHA GANESH	III BTECH



Fig 10: III Btech Civil Students visit to NSTL.

Dadi Institute of Engineering & Technology



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Visakhapatnam-531002, Andhra Pradesh, diet.edu.in



Department OF Cse “Exposure and Field Visit to NSTL-DRDO VIZAG” Report

Industry Visited: Naval Science and Technological
Laboratory(NSTL)-DRDO,NAD Junction, Visakhapatnam

Chief Patron: ~~Sri Dadi Ratnakar, Chairman~~
Patron : Dr.Challa Narasimham,Principal
Conveners : Dr. K. Sujatha, Professor, R&D Convenor
Mrs.K.Komali,Assistant Professor,HOD-
CSE.
Coordinator : Mr.V.Vidya Sagar,Assistant Professor,Cse Dept.
Date: 26 February, 2022

Department of Cse, Dadi Institute of Engineering & Technology has successfully organized a field visit to “NSTL-DRDO VIZAG” for students. This was conducted to know the latest technologies used by the Defence forces. NSTL-DRDO VIZAG the Naval Science and Technological Laboratory is an Indian defence laboratory of the Defence Research and Development Organization, located in Visakhapatnam. Its main function is there search and development of underwater weapons and associated systems. NSTL is organized under DRDO's Directorate of Naval R&D. This has motivated all enthusiastic students to utilize this opportunity and know about the technologies used in the Defence forces.

Objectives:

- Field visits are the way of enhancing classroom learning by making real world connections. These types of trips expose students to different places and eras.
- It creates awareness to students about the different innovative technologies.

Outcomes:

- Very good opportunity for students to interact with Experts.
- Develops confidence and helps to enhance their interpersonal skills.



Fig.1: Students accompanied by coordinators at DIET Campus.



Fig.2: Entrance of Naval Science and Technological laboratory-DRDO Vizag

LIST OF STUDENTS VISITED

SNO	RollNo	StudentName	Year/Section
1	19U41A0506	BODDEDA REECHA	III BTECH
2	19U41A0509	CHAVA SAI RESHMA	III BTECH
3	19U41A0521	GUDIPATI SRILASYA	III BTECH
4	19U41A0524	JYOTHULA PREETHI PRASUNA	III BTECH
5	19U41A0529	KANDREGULA YOGITHA	III BTECH
6	19U41A0531	KARANAM SOMESWARI	III BTECH
7	19U41A0535	KATTAMURI SATYAVATHI	III BTECH
8	19U41A0543	KONATHALA LOHITHA	III BTECH
9	19U41A0545	KOPPAKA SRI GANESH	III BTECH
10	19U41A0548	MADAGALA NAVEEN	III BTECH
11	19U41A0552	VISWANADHAPALLI SHALEM	III BTECH
12	19U41A0553	MUDDA SAI CHANDRA	III BTECH
13	19U41A0558	NEELAPU LIVI ADITYA REDDY	III BTECH
14	19U41A0559	SARDI SOWMYA	III BTECH
15	19U41A0561	A HEYSHNIKA	III BTECH
16	19U41A0562	D.SAI ROSHINI	III BTECH
17	19U41A0569	P.HYNDHAVI	III BTECH
18	19U41A0578	S.FATHIMA	III BTECH
19	19U41A0579	S.REKHA	III BTECH
20	19U41A0581	S.DINESH	III BTECH
21	19U41A0582	TABASSUM	III BTECH
22	19U41A0587	T.SAI SUREKHA	III BTECH
23	19U41A0590	V.JASWANTH	III BTECH
24	19U41A0591	V.SNEHA	III BTECH
25	19U41A0593	V.KALYANI	III BTECH
26	19U41A0599	Y.MANIKANTA	III BTECH
27	19U41A05A0	Y.JAGADEESH	III BTECH
28	19U41A05A7	M.MOUNIKA	III BTECH
29	19U41A05B0	V.GAYATHRI	III BTECH
30	19U41A0582	TABASSUM	III BTECH



Fig10:III Btech Cse Students visit to NSTL.

MINIPROJECTS

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Phone: 986369444/996

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 24-11-2021

MINI PROJECT REPORT
[Domestic Energy Audit]

Student Name: SENAPATHI ANIL
Roll No: 19U45A0257
Batch/Year/Class/Sem: IV B-TECH/2021/EEE-A/IV-1

1) ENERGY METER NO.: 111139500C8010466

2) LAST THREE MONTHS BILL PAID:

- SEPTEMBER - 658Rs
- OCTOBER - 634Rs
- NOVEMBER - 510Rs

3) ADDRESS: 6-38-28/1, SRAMIK NAGAR

EQUIPMENT NAME	QUANTITY	BRAND	RATING	ENERGY CONSUMPTION(watts)	YEAR
AC	1	LG	3	1092.05	2018
TV	1	VU	4	75	2020
CEILING FANS	4	HAVELLS	5	75	2004
LED BULBS	11	HAVELLS	5	9	2017
FRIDGE	1	SAMSUNG	5	249	2013
MIXER	1	BUTTERFLY	5	750	2014
GRINDER	1	LAKSHMI	5	150	2010
TUBELIGHT	1	HAVELLS	5	20	2007



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MINI PROJECT REPORT

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
[Domestic Energy Audit]

Student Name: **APTANA SAI SASI RUMAR** Roll No: **19U45A0202**

Batch/Year/Class/Sem: **IV B-TECH /2021/EETG-A/IV-I**

INTRODUCTION:

An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.

What is Domestic energy audit.....?

A home energy audit is a service where the energy efficiency of a house is evaluated by a person using professional equipment (such as blower doors and infrared cameras), with the aim to suggest the best ways to improve energy efficiency in heating and cooling the house.

An energy audit of a home may involve recording various characteristics of the building envelope including the walls, ceilings, floors, doors, windows, and skylights.





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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 24/11/2021

DOMESTIC AUDIT

Equipment name (No)	Watts consumed	Name of company	Manufacturing date	Life span (Years)	Average hrs/day
Ceiling fans	75 w	Haveels	12/05/2015	5 *	9 HRS
Table fan	28.5w	Haveels	04/12/2004	5 *	2 HRS
CFL Bulbs	40w	Cisco	08/5/2009	5 *	8HRS
Led Bulbs	8.5w	crompton	03/12/2019	5 *	4 HRS
Filament lamps	50w	crompton	12/06/2019	5 *	2 HRS
Fridge	275w	L.G	14/07/2021	4 *	20 HRS
TV	160w	M.I	20/09/2020	5 *	10HRS
Chimney	180w	Butter fly	25/06/2021	3 *	6 HRS
Mixer	750w	Ganga	25/09/2012	3 *	2 HRS
Grinder	150w	Butter fly	27/04/2015	5 *	2 HRS
Heater	60w	Ganga	25/06/2021	3 *	1 HR
Washing machine	2100w	L.G	23/10/2020	3 *	1 HR
3-phase motor	12975w	Crompton	25/02/2016	5 *	2 HRS
A.C	5200w	Lloyd	24/02/2015	3 *	3 HRS
Laptop	60 w	H.P	25/06/2020	5 *	1 HRS
Serial lights	15 w	led	29/09/2021	2 *	0.1 HR
Trimmers	2.5 w	Philips	21/08/2019	5 *	0.5 HRS



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

MINI PROJECT REPORT

[Domestic Energy Audit]

Date:24-11-2021

Student Name: KARRI MAHESH

Roll No:18U41A0221

Batch/Year/Class/Sem: IV B-Tech EEE-A section (4-1 semester)

Aim: Energy Audit on Home Appliances and Consolidate previous months Current Bills.

Meter Number: 120966

Bill Number: 2020102887

Present Meter Reading: 10792 kWh

Past three months Billing amount:544,473,448.



Domestic Energy Audit Report

Place	S No	Name of the Appliances	Quantity	Company	Year of Manufacture	Ratings
Living Room (Hall)	1	Tube light	1	Syska LED	2020	18W
	2	Fan	1	Butterfly	2018	70W
	3	LED lights	2	Philips	2016	18W
	4	LED TV	1	MI	2020	75W
	5	Dish Box	1	Willlett	2020	12W
	6	Refrigerator	1	Samsung	2018	240W
Bed Room	7	Tube light	1	Osram	2018	35W
	8	LED light	2	Excelite	2020	15W
	9	Air Conditioner	1	Volta	2020	1750W
	10	Stabiliser	1	Microtek	2020	170v-240v 8%
	11	Iron box	1	Usha	2019	1000W
Kitchen	12	LED light	1	Delp	2016	9W
	13	Electric cooker	1	Sansui	2019	700W
	14	Induction stove	1	Prastige	2018	1200W
Lawn	15	Mixer grinder	1	Mexicon	2019	750W
	16	Washing Machine	1	Inlax	2018	920W+180W
	17	LED lights	3	Delp	2016	9W

Living Room = 434W

Bed Room = 2971W

Kitchen = 2659W

Lawn = 719W

Total = 6783W = 6.783kW



Overview:

After Considering all past three Electric bills which were taken in the month of October, September and June have constant energy consumption rate. Using quality Equipments leads this constant Power Consumption.



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date:10-12-2021.

MINI PROJECT REPORT

[Domestic Energy Audit]

Student Name : Bheemisetty Sai Praveen.

Batch : 2020-2023

Year : 3rd year

Sem : 1st sem

Rollno:20U45A0207.

Energy Meter Number : 11132200GW022986.

Electric Bill Address : 9-6-69/1, High school Road, New Gajuwaka,
Visakhapatnam-530026.

Number Of Electrical Appliances At Home : 14 NOs

Last Three Months Electrical Bills:





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LIST OF APPLIANCES:-

SLNO.	Name Of The Appliances	Company	Year of Manufacturing	Volts(or) Rating	quantity
1	Fan	Bajaj	2018	40W	05
2	Led Light	Bajaj	2016	9W	06
3	Led Tv	Fox sky	2020	30W	01
4	Led Tv	Toshiba	2017	30W	01
5	Refrigerator	LG	2016		01
6	Air conditioner	Samsung	2011	1690W	01
7	Air conditioner	DaiKin	2018	1690W	01
8	Mixer	Bajaj	2019	800W	01
9	Grinder	Sri Nandhi	2019	125W	01
10	Laptop	Dell	2020	65W	01
11	Greaser	Bajaj	2018	1500W	01
12	Water filter	Kent	2019	60W	01
13	Iron box	Bajaj	2017	180W	01
14	Washing machine	LG	2017	2800W	01



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Phone: 990394444/9903981111, E-Mail: info@diet.edu.in, Web: www.diet.edu.in

NAME PLATE DETAILS OF APPLICATIONS:-

SAMSUNG AIR CONDITIONER	
MODEL	AR18R6D0N
CAPACITY	6000W
POWER SUPPLY	220V/50Hz
WARRANTY	2 YRS
POWER	1050W
REFRIGERANT	R32 (40g)
SAMSUNG HOME ELECTRONICS PVT. LTD. MADE IN INDIA	



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Average watts used from last three months:256W

Amount paid for each month:-

September:-1277 Rs.

October:- 1144 Rs.

November:-554 Rs.

CONCLUSION:

By doing this Electrical audit i observed that the bill is frequently decreasing. In the month of September the Electrical bill is high due to usage of high loads and in the month of October slightly the amount of bill is decreased due to decreasing two or more loads and finally in the month of November the half amount of the bill is decreased due to using low loads . By observing this audit every month we should check and use the loads by doing this we can decrease the amount of bill and save the electricity.



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 23-11-2021

MINI PROJECT REPORT

[Domestic Energy Audit]

Student Name: SOMIREDDY VARAPRASAD

Roll No: 19U45A0261

Batch/Year/Class/Sem: 2019-22/4th/EEE A/4-1

INTRODUCTION:

An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.

PRINCIPLE:

When the object of study is an occupied building then reducing energy consumption while maintaining or improving human comfort, health and safety are of primary concern. Beyond simply identifying the sources of energy use, an energy audit seeks to prioritize the energy uses according to the greatest to least cost-effective opportunities for energy savings.

What is Domestic energy audit.....?

A home energy audit is a service where the energy efficiency of a house is evaluated by a person using professional equipment (such as blower doors and infrared cameras), with the aim to suggest the best ways to improve energy efficiency in heating and cooling the house.

An energy audit of a home may involve recording various characteristics of the building envelope including the walls, ceilings, floors, doors, windows, and skylights. For each of these components the area and resistance to heat flow (R-value) is measured or estimated. The leakage rate or infiltration of air through the building envelope is of concern, both of which are strongly affected by window construction and quality of door seals such as weather stripping. The goal of this exercise is to quantify the building's overall thermal performance. The audit may also assess the efficiency, physical condition, and programming of mechanical systems such as the heating, ventilation, air conditioning equipment, and thermostat.

A home energy audit is often used to identify cost effective ways to improve the comfort and efficiency of buildings. In addition, homes may qualify for energy efficiency grants from central government.

S. No	Equipment name	Manufacture Year	Type	Number of Equipments	Power Consumption in Watts	Total power consumption
1.	Tube light-Phillips	2016	AC	1	40 watts	40
2.	Havells LED Light Batten	2020	AC	1	20 watts	20



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3.	Lisha fan Crompton fan	1993, 2020	AC	2	80 watts	160
4.	Crompton bulb	2016	AC	3	9 watts	27
6.	Faxin rechargeable led	2019	AC	2	9 watts	18
6.	Crown original bulb	2019	AC	3	5 watts	15
7.	Bosch serie 6 washing machine	2020	AC	1	2500 watts	2500
8.	Samsung refrigerator	2012	AC	1		
9.	Immersion heater	2016	AC	1	1500 watts	1500
10.	Mixer sumeet traditional	2017	AC	1	750 watts	750
11.	Electric cooker prestige	2016	AC	1	700 watts	700
12.	Grinder butterfly	2018	AC	1	500 watts	500
13.	Television samsung	1998	AC	1	350 watts	350
14.	Trimmer	2019	DC	1	2 watts	2
15.	Powerbank	2020	DC	1	10000mah*5v = 50 watts	50
16.	Xiaomi mobile	2018	DC	1	5000mah*5v = 25 watts	25
17.	Lava pulse	2020	DC	1	1800mah*5v = 9 watts	9



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18.	Samsung dixos	2016	DC	1	1500mah*5v = 7.5 watts	7.5
19.	Liquid vapurizer All out	2020	DC	1	2.5 watts	2.5
20.	Adapler xiaomi	2017	AC - DC	1	5v*2A = 10 Watts	10
21.	Adapler samsung	2016	AC - DC	2	5v*1.6 = 8 watts	16

Meter number: 4654732
Meter bill number: 113132D012017799
Present meter reading unit: 5600 units
Past three months reading units: 200 units
Past three months bill amount: 955rs



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Sl. No.	Description	Rate	Quantity	Total
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LE-25

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date:

MINI PROJECT REPORT

[Domestic Energy Audit]

Student Name: KARNAM PAVANI

Roll No: 20U45A0225

Batch/Year/Class/Sem: 2021/ 3rd B Tech/ 3-1

ENERGY METER NO. :- 324



BILL ADDRESS: RAMANAMMA

A CODE : 70701

ADDRESS : AGANAMPUDI

NO. OF ELECTRICAL APPLIANCES AT HOME :- 16

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EASTERN POWER DISTRIBUTION COMPANY LTD		EASTERN POWER DISTRIBUTION COMPANY LTD	
MONTHLY DEMAND		MONTHLY DEMAND	
BILL NO	10950073	BILL NO	10950073
PROCODE	007-00000	PROCODE	007-00000
CHRGY	CTD E	CHRGY	CTD E
DT	06/09/2021 11:00:20	DT	06/09/2021 11:00:20
SLNO	70701 00324	SLNO	70701 00324
NAME	P. SURESHKUMAR	NAME	P. SURESHKUMAR
ADDR	20701 ACHH. KUNAPPE	ADDR	20701 ACHH. KUNAPPE
ADDR	KODAL WUD YONGAYYA	ADDR	KODAL WUD YONGAYYA
ADDR	KODAL	ADDR	KODAL
EXT. 1	00000000	EXT. 1	00000000
LOAD	1.00	LOAD	1.00
STRVNO		STRVNO	
POLE NO		POLE NO	
PREV	6488 00 09/21 01	PREV	6488 00 09/21 01
PREV	8302 00 08/21 01	PREV	8302 00 08/21 01
UNITD	00 AND	UNITD	00 AND
PETER NO		PETER NO	
RATE		RATE	
ENERGY CHARGE	254.00	ENERGY CHARGE	254.00
FIXED CHARGES	10.00	FIXED CHARGES	10.00
CURTH CHARGES	40.00	CURTH CHARGES	40.00
ED CHARGES	5.00	ED CHARGES	5.00
E.P. ADJUST	0.00	E.P. ADJUST	0.00
LATE PAYMENT PEN	0.00	LATE PAYMENT PEN	0.00
TRUE UP CHG	45.12	TRUE UP CHG	45.12
BILL AMT	354.00	BILL AMT	354.00
APPEARS	0.00	APPEARS	0.00
NET AMT	354.00	NET AMT	354.00
A.C.D	0.00	A.C.D	0.00
LAST PAID DT	25-AUG-21	LAST PAID DT	25-AUG-21
LAST PAID AMT	88.00	LAST PAID AMT	88.00
DUE DATE	09-09-2021	DUE DATE	09-09-2021
DISC DATE	15-10-2021	DISC DATE	15-10-2021
TCSEALING		TCSEALING	

SOFT COPY OF AUGUST , SEPTEMBER BILLS

AUG CONSUMPTION IN UNITS-98

AMOUNT PAID IN RUPEES - 354

SEP CONSUMPTION IN UNITS - 119

AMOUNT PAID IN RUPEES - 441



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S.NO.	NAME OF APPLIANCE	COMPANY	YEAR OF MANUFACTURER	WATTAGE OR RATING	QTY.	REMARKS
1	FANS	CROMPTON	2020	55W	2	NA
2	FANS	HINDWARE	2020	40W	2	NA
3	TUBELIGHTS	HAVELLS	2019	40W	5	NA
4	GRINDER	PREETHI	2019	750W	1	NA
5	MIXER	PREETHI	2018	750W	1	NA
6	TV	REAL ME	2019	74W	1	NA
7	REFRIGERATOR	WHIRLPOOL	2020	190W	1	NA
8	INVERTER	MICROTEK	2017	672W	1	NA
9	LED BULB	PHILIPS	2019	7W	1	NA
10	NIGHT BULB	PHILIPS	2020	1W	1	NA

PHOTOS OF NAME PLATE DETAILS - EQUIPMENTS



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CONCLUSION :

This Domestic Energy Audit helps individual home owners find out their Residential consumption and energy flow. This Audit is useful to Determine areas of your home where there is energy loss and by identifying where power usage may be curbed to earn savings
This energy audit will help us to 1) Map energy usage in their house holds 2) Minimize their house hold energy and cost savings.
Average wattage : 257w
Average power consumption in units :119
Amount paid in rupees :440

Conclusion:

- As I observed that from last 3 months the current bill will be increasing and decreasing.
- Energy efficiency is the wave of the future.
- An energy efficient home is a personal step towards the direction of renewable energy
- Finally, I conclude that energy is most useful weapon for the society.

“Today’s Wastage is

Tomorrow’s Shortage”

Socially relevant project

AUTOMATED SOIL MOISTURIZER

*A Socially Relevant Project Report submitted in partial fulfilment of the
requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

LEKKALA TARUNKUMAR	20U45A0233
ANAKAPALLI NAGENDRA	20U45A0203
UPPILI JAYANTH	20U45A0221
GALLA DEEPTHI	19U41A0201
MUMMINA LOWKYA	20U45A0238

Under the Esteemed Guidance of

Mr. A Krishna Nag

Associate professor & HOD, Department of EEE



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NH-4, Anakapalle-531002, Visakhapatnam, A.P.

2022


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CERTIFICATE

This is to certify that the Socially Relevant Project work entitled "AUTOMATED SOIL MOISTURIZER" is a being submitted by L. TARUNKUMAR (20U45A0233), ANAKAPALLI NAGENDRA (20U45A0203), UPPILI JAYANTH (20U45A0221), GALLA DEEPTHI (19U41A0201), MUMMINA LOWKYA (20U45A0238) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2021-22.


MR. A KRISHNA NAG
(ASSOCIATE PROFESSOR & HOD)

DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

ABSTRACT

Planting a tree in an environment where the seed or the plant would not get water adequately through natural sources like rain or ground water in its initial phases has been always a matter of concern for tree planters.

This is where an autonomous moisture monitor for plants system can help.

This project on "Automated Soil Moisturizer" is intended to create an automated irrigation mechanism which turns the pumping motor ON and OFF by detecting the dampness/moisture content of the earth. In the domain of farming, utilization of appropriate means of irrigation is significant.

The benefit of employing these techniques is to decrease human interference and still make certain appropriate irrigation.

The proposed model consists of three stages: Firstly, sensing the land's moisture levels. Second stage is the determination of its status: dry or wet. The last and third stage is Motor control.

This project proposes the development of Automatic Soil Moisturizer(ASM) capable of detecting loss of moisture in soil using the soil moisture sensor. Specifically, ASM utilizes the Soil Moisture Sensor to detect water content level in soil and give appropriate responses to the system based on detected condition. Using this response, ASM determines whether or not the land needs to be irrigated.

In the current version, ASM is capable of detecting and irrigating a small area that can be considered to be under a single pump's coverage. Implemented using IC 555 TIMER, APIS uses live input data to determine the conditions. ASM represents our most basic step towards automated farming to improve turnover and reduce the impact of draught or loss due to irrigation issues.

In this system we use a timer IC to time the monitoring process. A moisture level sensor is used to detect the moisture level of the soil. An LED is used to give visual alarm and a Buzzer is used to give audio alarm to the care taker of the plant.

Thus in this project with the help of a simple combinational circuit and a sensor we can help save a plant by maintaining the moisture level of the soil of the plant, thus keeping the plant healthy.

DETECTION OF RASH DRIVING ON HIGHWAYS

A Socially Relevant Project Report submitted in partial
fulfilment of the requirements for the award of the Degree

of

**BACHELOR OF TECHNOLOGY
ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

- | | |
|-------------------|------------|
| 1. A. VIJAY KUMAR | 20U45A0201 |
| 2. K. PAVANI | 20U45A0225 |
| 3. K. DILEEPKUMAR | 20U45A0226 |
| 4. K. SYAMKUMAR | 20U45A0227 |
| 5. M. GANGESHWRAO | 20U45A0268 |

Under the Esteemed Guidance of
Mr. B V SIVA PRASAD M.Tech.(P.h.D)
Assistant professor, EEE,DIET.



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2022



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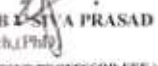
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This is to certify that the Socially Relevant Project work entitled "DETECTION OF RASH DRIVING ON HIGHWAYS" is being submitted by A. VIJAY KUMAR (20U45A0201), K. PAVANI (20U45A0225), K. DILEEP KUMAR (20U45A0226), K. SYAM KUMAR (20U45A0227), M. GANGESWARA RAO (20U45A0268) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2021-2022.


Mrs. B. SIVA PRASAD
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MR. A. KRISHNA NAG
M.Tech. (PhD)
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HEAD OF DEPARTMENT

Head Office: 11th Floor,
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Dadi Institute of Engg. & Tech.,
Anakapalle - 531 002


EXTERNAL EXAMINER

ABSTRACT :

The aim of this project is to develop a device to detect rash driving on highways and to alert the traffic authorities in case of any speed violation. Accidents due to rash driving on highways are on the rise and people are losing their lives because of others mistakes. While driving on highways, drivers should not exceed the maximum speed limit permitted for their vehicle. However, accidents keep on occurring due to speed violations as drivers follow their speedometers and control their speed according to them, and reduce the speed if they find it to be exceeding and beyond their control.

A highway speed checker comes handy for the traffic police, especially against the speed limit violators because it provides the digital display as well as buzzing sound or alarm to detect any vehicle speed if the vehicle exceeds the permitted speed limit. To overcome this problem, we have implemented a circuit called as a speed checker for highways. This kit is inexpensive and it is used for considering the average and high speed of vehicles that move on the highways or roads. By taking all these considerations in mind, we have designed a highway-speed checker circuit to detect the rash driving by using different electronic components such as timer, counter, logic gates, microcontroller, seven segment display and all other components. There is one death in every 4 minutes due to road accident in India.

As we know, each and every life is important so to stop this rash driving control is needed. In previous years, many people has worked on it or still working to stop this life taking accident. This speed checker will come handy for the highway traffic police as it will not only provide a digital display in accordance with a vehicle's speed but also sound an alarm if the vehicle exceeds the permissible speed for the highway. The system displays the time taken by the vehicle in crossing this 100m distance from one fixed point to the other in 6 second, from which the speed of the vehicle can be calculated. Thus we can also get a idea of the speed of each and every vehicle that is crossing over that road. This speed checker will come handy for the highway traffic police as it will not only provide a digital display in accordance with a vehicle's speed but also sound an alarm if the vehicle exceeds the permissible speed for the highway.

AUTOMATIC SCHOOL/COLLEGE PERIOD BELL

*A Socially Relevant Project Report submitted in partial
fulfilment of the requirements for the award of the Degree
of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

SALAPU SAI GANESH	:	20U45A0246
CHIKKALA SAI SIRISHA	:	20U45A0210
THUMPALA AKSHAYA DEVI	:	19U41A0206
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Under the Esteemed Guidance of

Mrs. K. ALFONI JOSE

Assistant Professor, Department of EEE



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CERTIFICATE

This is to certify that the Socially Relevant Project work entitled "AUTOMATIC SCHOOL / COLLEGE PERIOD BELL" is a being submitted by Salapu Sai Ganesh (20U45A0246), Chikkala Sai Sirisha (20U45A0210), Thumpala Akshaya (Devi 19U41A0206), Arjilli Konda Babu (20U45A0204), Malla Sai (20U45A0236) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for **ELECTRICAL AND ELECTRONICS ENGINEERING** during the academic year 2021-2022.


Mrs. K. ALFONI JOSE
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MR. A KRISHNA NAG
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(HEAD OF THE DEPARTMENT)

Head of the Department
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Anskapalle - 531002


EXTERNAL EXAMINER

ABSTRACT

I still remember my school and college days and I am sure you too remember. In almost 90% school and colleges the classes are organized in periods. A school period is a block of time allocated for lessons, classes in schools. They typically last between 30 and 60 minutes, with around 3-10 periods per school day.

The ringing of a school bell is a signal that tells a school's students when it is time to go to class in the morning or afternoon and when it is time to change classes during the day as well as when students are dismissed from school.

A teacher typically rang a handheld bell to signal students to come inside or to begin and end class; it may be used for other purposes such as getting students' attention for special announcements. The first bells are believed to be from the 3rd century BC and were made of pottery.

Conventionally, the school bell is rang by a peon or multi-tasking assistant. What if there would be a microcontroller based automatic school bell which rings itself according to a fed timetable. This project is the implementation of same functionality.



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NH5, Anakapalle-531002, Visakhapatnam

**A Mini Project Report on
WATER LEVEL INDICATOR USING 555
TIMER**

Submitted in partial fulfillment for the award of the degree of

Bachelor of Technology

in

ELECTRONICS AND ELECTRICAL ENGINEERING

Submitted By

BELSAI PRAVEEN	-20U45A0207
K.SANJAY	-20U45A0224
P.PAVAN KUMAR	-20U45A0243
S.SOMESH MAHA LAKSHMI NAIDU	-20U45A0254
G.GANESH	-20U45A0263

Under the Esteemed Guidance of

Mr.BV SIVA PRASAD

(Assistant Professor,EEE)



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CERTIFICATE

This is to certify that the project work entitled "WATER LEVEL INDICATOR USING 555 TIMER" is being submitted by BH. Sai Praveen (20U45A0207), K.Sanjay (20U45A0224), P.PavanKumar(20U45A0243), S.S.M.NAIDU(20U45A0254), G.Ganesh (20U45A0263) in a partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021-22.

Signature of Project guide
Mr. B. V. SIVA PRASAD (M. Tech ,PhD)

Assistant professor
DIET

Signature of Head of the Department
Mr A. Krishna rag (Ph.D)

Associate professor & HOD of EEE
DIET

signature of the External Examiner

ABSTRACT

water tank overflow is a common problem which leads to the wastage of water. Though there are many solutions to it like ball valves which automatically stop the water flow once the tank gets full.but being electronics enthusiastic wouldn't you like an electronic solution for it so here is a simple and handy that will guide you to make a circuit which will detect the water level and will raise an alarm upon getting the water tank full or a preset level .water level indicator is a modern way of measuring the water level using latest technologies like sensors ,arduino the main aim of the project is to calculate the water level at any instant of time and to buzz the buzzer if the tank is filled completely.I would like to use arduino and ultrasonic sensor to make it possible. this may be useful to conserve water and waste water.

MINI INVERTER 12V-240V

A Socially Relevant Project report submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

D.SRI TEJA	(20U45A0215)
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P.MURARI	(20U45A0242)
SE.JALALUDIN	(20U45A0252)
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CERTIFICATE

This is to certify that the Socially Relevant Project work entitled "**MDH INVERTER 12V-240V**" is being submitted by D.SRI TEJA (20U45A0215), K.GANESH (20U45A0223), P.MURARI (20U45A0242), SK.JALALUDDIN (20U45A0252), V.SYAM KUMAR (20U45A0258) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2021-2022.


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EXTERNAL EXAMINER

ENERGY AUDITING IN RURAL AREAS

*A Project Report submitted in partial
fulfilment of the requirements for the award of the degree*

BACHELOR OF TECHNOLOGY

BY

ELECTRICAL & ELECTRONICS ENGINEERING

Submitted By

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20U45A0217

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2019



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CERTIFICATE

This is to certify that the project work entitled "ENERGY AUDITING IN RURAL AREAS" is being submitted by ERUMAR M.VENKATESH K.NAVEEN Y.VENKATESH C.MANKANTA in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2021-22.

Mr.K.SRINIVAS RAO
DEPUTY HEAD OF DEPARTMENT
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Mr. KRISHNA NAG
ASSOCIATE PROFESSOR
(HEAD OF THE DEPARTMENT)

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of people who made it possible and whose constant guidance and encouragement crown all the efforts with success.

First and for most, we would like to thank our project guide Mr.KSRINIVAS RAO, Department of Electrical and Electronics Engineering for giving us an opportunity to work on this challenging topic and providing us guidance. Her encouragement, support and suggestions are most valuable for the successful completion of our course.

We feel elated to extend our floral gratitude to Head of the department, Mr. A. KRISHNA NAG, Department of Electrical and Electronics Engineering for his encouragement all the way during analysis of the project. His annotations, insinuations and criticisms are the key behind the successful completion of during project and for providing us all the required facilities.

Our thanks and appreciations also go to our colleague in developing the project. Thank you to all the people who have willingly helped us out with their abilities.



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2020

AUTOMATIC WATER TANK INDICATOR

*A Socially Relevant Project Report submitted in partial
fulfilment of the requirements for the award of the*

Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

K. VENKATESH	19U41A0202
N. VENKAT SAI	19U41A0209
G. LAXMAN	20U45A0219
H. K. KESAVA	20U45A0262

Under the Esteemed Guidance of

Mr.T. Ramesh Babu


Professor, Department of EEE




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This is to certify that the Socially Relevant Project work entitled "AUTOMATIC WATER TANK INDICATOR" is being submitted by K. VENKATESH (19U41A0202), N. VENKATA SAI (19U41A0209), G. LAXMAN (20U45A0219), K. KESAVA (20U45A0262) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2021-2022.


Mr. T. RAMESH BABU
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Mr. A. KRISHNA NAG
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HEAD OF THE DEPARTMENT
Head of the Department
Electrical & Electron. Engg.
Dadi Institute of Engineering & Technology
Anakapalle - 531 002


EXTERNAL EXAMINER

ABSTRACT

This project is taken up as India is an agriculture oriented country and the rate at which water resources are depleting is a dangerous threat hence there is a need of smart and efficient way of irrigation. In this project we have implemented sensors which detect the humidity in the soil (agricultural field) and supply water to the field which has water requirement. The project is PIC16F877A microcontroller based design which controls the water supply and the field to be irrigated. There are sensors present in each field which are not activated till water is present on the field. Once the field gets dry sensors sense the requirement of water in the field and send a signal to the microcontroller. Microcontroller then supply water to that particular field which has water requirement till the sensors is deactivated again. In case, when there are more than one signal for water requirement then the microcontroller will prioritize the first received signal and irrigate the fields accordingly.

This project uses PIC16F877A Microcontroller. It is programmed in such a way that it will sense the moisture level of the plants and supply the water if required. This type of system is often used for general plant care, as part of caring for small and large gardens. Normally, the plants need to be watered twice daily, morning and evening. So, the microcontroller has to be coded to water the plants in the greenhouse about two times per day. People enjoy plants, their benefits and the feeling related to nurturing them. However for most people it becomes challenging to keep them healthy and alive. To solve this problem we made a project for those who cannot water the plant due to their busy schedule or when they go outside for long time. The system automation is designed to be assistive to the user. We hope that through this project people will enjoy having plants without the challenges related to absent or forgetfulness.



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NH5, Anakapalle-531002, Visakhapatnam

**A Mini Project Report on
Design of COVID preventive
Temperature and Mask Scan Entry system using IoT**
Submitted in partial fulfillment for the award of the degree of
Bachelor of Technology

in
ELECTRONICS AND ELECTRICAL ENGINEERING

By
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D.RAVI TEJA -20U45A0211
B.BENARJEE VAMSI -20U45A0206
R.JAYARAM -19U41A0203
R.SATYA JAGADEESI -20U45A0244

Under the Esteemed Guidance of
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CERTIFICATE

This is to certify that the project work entitled "DESIGN OF COVID PREVENTIVE TEMPERATURE AND MASK SCAN ENTRY SYSTEM USING IOT" is being submitted by J.Viswanwar Rao (20U45A0220), D.Ravi teja (20U45A0211), B.Benarjee Vamsi (20U45A0206),R.Jaya Ram (19U41A0203), R.Satya Jagadesh (20U45A0244) in a partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2021-22.


Signature of Project guide
Mr.Ch.Ravi kumar (M.Tech)
Assistant professor
DIET


Signature of Head of the Department
Mr.A.Krishna nag (Ph.D)
Associate professor & HOD of EEE
DIET

Signature of the External Examiner

ABSTRACT

This project is designed in inspired with real life scenario which our team-mate gone through

Currently humans are employed for temperature screening and mask identification in public places to prevent the spread of COVID-19. We have temperature testing systems for all scanning entrances, but manual temperature scanning has numerous drawbacks. The staff isn't well-versed in the use of temperature scanners. When reading values, there is space for human error. People are often allowed entry despite higher temperature readings or the lack of masks. For large crowds, a manual scanning device is ineffective. Hence there arises a need to have an automatic system that checks for temperature and mask. We propose a fully automated temperature scanner and entry provider system to solve this issue. The system uses a contactless temperature scanner and a camera to capture image. If a high temperature or the absence of a mask is observed, the scanner is connected to a gate like structure that prevents entry. To monitor the entire process, the device uses a temperature sensor and camera connected to a Raspberry Pi system. The main theme of this paper is to automate the entire covid scanning process for reducing risk of spread COVID-19 in highly crowded places such as malls, schools and colleges.

AUTOMATIC STREET LIGHTS DESIGN

**Automatic Streetlights that Glow on Detecting Night and
Object using Arduino**

***A Socially Relevant Project Report submitted in partial fulfilment
of the requirements for the award of the Degree of***

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

B . MUSILI NAIDU	(20U45A0208)
B. LAKSHMI NARAYANA MANIKANTHA	(20U45A0209)
K. CHANDU	(20U45A0222)
V. VARAHA VENKATA SATYA NARENDRA	(20U45A0257)
V. CHARAN SAI TEJA	(20U45A0259)

Under the Esteemed Guidance of

J. Deleep Kumar

Assistant Professor, Department of E.E.E



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(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU, Kakinada)

NAAC ACCREDITED INSTITUTE

ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution


NH-16, Annalapalle-531002, Visakhapatnam, A.P.



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[Approved by A.I.C.T.E & Affiliated to JNTU, Kakinada]
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Institution
NH-16, Anakapalle-531002, Vinakhapatnam, A. P

CERTIFICATE

This is to certify that the Socially Relevant Project work entitled "**AUTIO MATIC STREET LIGHTINGS DESIGN IN PUBLIC PLACES**" is a being submitted by B. MUSILI NAIDU [20U45A0208], B. LAKSHMI NARAYANA MANIKANTHA [20U45A0209], K. CHANDU [20U45A0222], V. VARAHA VENKATA SATYA NARENDRA [20U45A0257], V. CHARAN SAI TEJA [20U45A0259].
In partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for COMPUTER SCIENCE & ENGINEERING during the academic year 2021-2022.


J. DELEEP KUMAR
(Assistant PROFESSOR)
(SOCIALLY RELEVANT
PROJECT GUIDE).


A. KRISHNA NAG
(Assistant PROFESSOR)
(HEAD OF DEPARTMENT)
Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002


EXTERNAL EXAMINER

ABSTRACT

Our manuscript aims to develop a system which will lead to energy conservation and by doing so, we would be able to lighten few more homes. The proposed work is accomplished by using Arduino microcontroller and sensors that will control the electricity based on night and object's detection. Meanwhile, a counter is set that will count the number of objects passed through the road. The beauty of the proposed work is that the wastage of unused electricity can be reduced, lifetime of the streetlights gets enhance because the lights do not stay ON during the whole night, and also helps to increase safety measurements. We are confident that the proposed idea will be beneficial in the future applications of microcontrollers and sensors etc.

INDEXED TERMS : Automation, Switching, Energy conservation, Arduino, Sensors.

A MULTIFACTOR STUDENTS ATTENDENCE SYSTEM

*A Socially Relevant Project Report submitted in partial
fulfilment of the requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

S. UDAY KIRAN	(20U45A0255)
L. SUNIL	(20U45A0234)
D. SAI	(20U45A0213)
D. ARUNA	(20U45A0216)
V. SIRISHA	(20U45A0266)

Under the Esteemed Guidance of

Mr. A. CHIRANJEEVI

Assistant Professor, Department of EEE

The logo for Diet features the word "Diet" in a bold, red, sans-serif font. Above the letter 'i' is a small globe icon. A thin, grey, curved line arches over the text.

A handwritten signature in red ink, appearing to be "A. Chiranjeevi", is written below the Diet logo.



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

CERTIFICATE

This is to certify that the Socially Relevant Project work entitled "A MULTIFACTOR STUDENT ATTENDANCE SYSTEM" is a being submitted by S. UDAY KIRAN (20U45A0255), L. SUNIL (20U45A0234), D. SAI (20U45A0213), D. ARUNA (20U45A0216), V. SIRISHA (20U45A0266) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS ENGINEERING during the academic year 2020-2023.


Mr. A. CHIRANJEEVI

(ASSISTANT PROFESSOR)

(SOCIALLY RELEVANT PROJECT GUIDE)


Mr. A. KRISHNA-NAG

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)
Head of the Department
Electrical & Electronics Engg.
Dadi Institute of Engg. & Tech.
Anakapalle - 531 002

ABSTRACT

Attendance is an important factor for measuring eligibility, commitment and record keeping for assessment of students and employees. Several automated attendance systems have been developed. These systems are mostly based on single factor template based, which pose a security fault line. This paper presents the development of a multifactor attendance system that employs the flexibility of RFID technology and the security of fingerprint biometrics to manage students' attendance record. Performance evaluation in terms of response time and event using 10 students shows that average execution time of approximately 4.61 seconds could be achieved. Likewise, the system recorded zero percent (0%) of false reject, which tries the system reliability and integrity of the result.

Keywords- RFID; Fingerprint Biometric; Cryptography; Authentication; Security.

WATER LEVEL INDICATOR USING ARDUINO AND
ULTRA SONIC -- SENSOR

11

A Project Report submitted in partial fulfillment of the requirements for the award of
the degree

BACHELOR OF
TECHNOLOGY IN
ELECTRICAL & ELECTRONICS
ENGINEERING

Submitted By

G GOWTHAM
KUMAR
S PADMA
A HEMANTH
K V CHAITANYA
D SIVA

20U45A0218
20U45A0251
20U45A0202
20U45A0230
20U45A0214

Mr.G. JAGADEESH
ASSISTANT Professor, Department of



DADE INSTITUTE OF ENGINEERING & TECHNOLOGY

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NIT-5, Anaparthi-521002, Visakhapatnam, A.P.

CERTIFICATE

This is to certify that the project work entitled "WATER LEVEL INDICATOR" is being submitted by G Gowtham
Kumar, S Padma, K V Chaitanya, A Hemant, D Siva in partial fulfillment of the Requirement for the award of the
degree of BACHELOR OF TECHNOLOGY for ELECTRICAL & ELECTRONICS
ENGINEERING during the academic year 2021-22.


MR. G. JAGADEESH
ASSISTANT PROFESSOR
(PROJECT GUIDE)


MR. KRISHNA NAG
ASSOCIATE PROFESSOR
(HEAD OF THE DEPARTMENT)


EXTERNAL EXAMINER

WATER LEVEL INDICATOR USING ARDUINO AND ULTRASONIC SENSORS

G Jagadeesh¹, K V Chaitanya², S Venkata padmavathi², A Hemanth², G Gowtham kumar², B Shiva²

¹Faculty, ²student, Dadi Institute of Engineering and Technology, Anakapalle

Abstract:

The facility requirements in many industries, farms, hostels, hotels, offices include an overhead tank for water which is usually fed through an electric pump that is switched off when the tank is filled up and switched on when it is empty. So, the most common way of knowing when the tank is filled is by observing when it overflows the brim. Depending on the type of liquid being handled, overflowing of such a tank could lead to a great liquid material losses ranging in the order of thousands of rupees per week depending on the extent of such applications. These losses can be prevented if the tank is monitored automatically by incorporating a feedback. Water level indicator using ultrasonic sensors and Arduino is an amazing and very useful project. The objective of this project is to notify the user the amount of water that is present in the overhead water tank. This project can be further enhanced to control the water level in the tank by turning it on when the water level is low, turning it off when the water level is high. Thus, the Arduino circuit of a water level indicator helps in the preventing of water wastage in an overhead tank. A transmitter circuit and receiver circuit. The transmitter circuit makes use of an ultrasonic sensor to measure the water level in terms of distance. This data is sent to the receiver circuit using RF communication.

KEYWORDS: Arduino, Ultrasonic sensors, water level indication.

PLASTIC RECYCLING

*A Socially Relevant Project Report submitted in partial
fulfilment of the requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

K.MADHU	(20U45A0231)
K.SWETHA	(20U45A0228)
L.VIJAY KUMAR	(20U45A0232)
O.LOKESH	(20U45A0239)
S.PADMANABHAM	(20U45A0246)

Under the Esteemed Guidance of

Mr. MOHAN

Assistant Professor, Department of EEE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P.

2022

INTERNSHIPS



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CERTIFICATE

This is to Certify that Mr/Ms Juttuka talibabu Roll Number 18U41A0437 studying B.Tech(ECE) at DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY has successfully completed Internship for 2 weeks in Networking with effect from 11/10/2021

BSNL wishes him/her all the best for a bright future


Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR493





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This is to Certify that Mr/Ms **TRINADH MADAPATI** Roll Number **18U41A0450** studying **B.Tech(ECE)** at **DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY** has successfully completed **Internship** for **2 weeks** in **Networking** with effect from **11/10/2021**

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Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR497





शिक्षण विकासासाठी आम्ही येथे आहोम
All India Council of Technical Education



Virtual Internship Completion Certificate

This is to certify that

DIVYA TALARI

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship
during Oct - Dec 2021

Supported By **aws** academy

Shri. Navin Chandra Khosla
Chief Coordinating Officer (CCO)
NEAT/AIL, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID : 204c1e6cc947a6588e6a4744716f
Student ID : 371809662b31041627108651



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National Educational Alliance for Technology



Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

KOILADA CHANAKYA

Dadi Institute of Engineering & Technology

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AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By  academy

Sridi Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID :3d6bc44c96614e167d6517852052e1
Student ID :STU6086d4385c1b1627110723



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NITK-STEP, Sririvasanagar, Sarathkal, Mangalore - 575025

Certificate

*This is to certify that **Mr. P. Swarnan of Eash Institute of Engineering & Technology, Visakhapatnam** has participated in the "Online Internship Programme on Machine Learning with MATLAB" held from 21st October 2021 to 29th November 2021 and has satisfactorily completed the course.*



Mr. Veeranna Paripathi
Director




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This is to Certify that Mr/Ms. Rajana Nandhini Roll Number 20U45A0416 studying B.Tech(ECE) at DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY has successfully completed Internship for 2 weeks in Networking with effect from 11/10/2021

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Asst. General Manager (Training)
BSNL, Visakhapatnam

Date: 30/10/2021
ID: 2021MR402



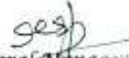


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CERTIFICATE

This is to Certify that Mr/Ms. *Nagam vidhyasree* Roll Number *20U45A0413* studying *B.Tech(ECE)* at *DADE INSTITUTE OF ENGINEERING AND TECHNOLOGY* has successfully completed *Internship* for *2 weeks* in *Networking* with effect from *11/10/2021*

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Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR459





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Certificate

This is to certify that Ms. S. Roopa of Dadi Institute of Engineering & Technology, Vishakhapatnam has participated in the "Online Internship Programme on Machine Learning with MATLAB" held from 21st October 2021 to 29th November 2021 and has satisfactorily completed the course.




M. Yeshwanth Pattipathi
Director

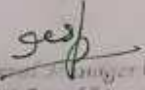


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CERTIFICATE

This is to Certify that Mr/Ms Kollu Sumanth Roll Number
18U41A0448 studying B.Tech(ECE) at DADI INSTITUTE OF
ENGINEERING AND TECHNOLOGY has successfully
completed Internship for 2 weeks in Networking with effect
from 11/10/2021

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Asst. Genl. Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR496






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This is to Certify that Mr/Ms POLIMERA KUSHAN KUMAR Roll Number 20U45A0415 studying B.Tech(ECE) at DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY has successfully completed Internship for 2 weeks in Networking with effect from 11/10/2021

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Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR45





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CERTIFICATE

This is to Certify that Mr/Ms *Madem Venkata Sai Snehit*
Roll Number *20U45A0411* studying *B.Tech(ICE)* at *DADI*
INSTITUTE OF ENGINEERING AND TECHNOLOGY has
successfully completed *Internship* for *2 weeks* in *Networking*
with effect from *11/10/2021*

BSNL wishes him/her all the best for a bright future


Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021/MR460






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To Certify that Mr/Ms **MARTURI HARISH** (Roll Number: 20U45A042) studying **B.Tech(ECE)** at **DJSDI INSTITUTE OF ENGINEERING AND TECHNOLOGY** has successfully completed **Internship** for 2 weeks in **Networking** with effect from **11/10/2021**

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Asst. General Manager (Training)
BSNL, Visakhapatnam

Date: 11/10/2021
ID: 2021MR347





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Certificate

*This is to certify that **Mr. P Chandrakula** of **Dadi Institute of Engineering & Technology, Vishakhapatnam** has participated in the "Online Internship Programme on Machine Learning with MATLAB" held from 21st October 2021 to 29th November 2021 and has satisfactorily completed the course.*




Mr. Yeswanth Paripathi
Director



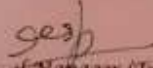
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CERTIFICATE

This is to Certify that Mr/Ms. Kapu Yamini Roll Number 18U4A0415 studying B.Tech(ECE) at DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY has successfully completed Internship for 2 weeks in Networking with effect from 11/10/2021

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Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR490





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CERTIFICATE

*This is to Certify that Mr/Ms CHARAKAPU SAI
SAMPATH KUMAR Roll number 18U41A0408 studying
B.Tech(ECE) at DADI INSTITUTE OF ENGINEERING AND
TECHNOLOGY has successfully completed Internship for 2
weeks in Networking with effect from 11/10/2021*

BSNL wishes him/her all the best for a bright future


Asst. General Manager (Training)
BSNL, Visakhapatnam

*Date : 30/10/2021
ID : 2021MF488*







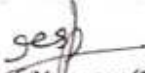
BHARAT SANCHAR NIGAM LIMITED

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CERTIFICATE

This is to Certify that Mr/Ms **UDDAGIRI USHODAYA**
Roll Number **20U45A0421** studying **B.Tech(ECE)** at **DADI**
INSTITUTE OF ENGINEERING AND TECHNOLOGY has
successfully completed **Internship** for **2 weeks** in **Networking**
with effect from **11/10/2021**

BSNL wishes him/her all the best for a bright future


Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : 30/10/2021
ID : 2021MR449



CERTIFICATE
OF COMPLETION

PEL-INT-NC-147

THIS IS TO CERTIFY THAT
Adireddi khyathi

Department of Electronics and Communication engineering

Dadi institute of engineering and technology
has completed the PHASE I INTERNSHIP PROGRAM ON
Artificial Intelligence

Duration : 15 Days From : 11th October 2021 - 26th October 2021



Srinivasan N
SRINIVASAN,N
Director



SRI SHASHA PRAYATHI TECHNOLOGIES PVT. LTD.

NITK-STEP, Srinivasnagar, Surathkal, Mangalore - 575025

Certificate

This is to certify that Mr. M. Akhilesh of Dadi Institute of Engineering & Technology, Vishakhapatnam has participated in the "Online Internship Programme on Machine Learning with MATLAB" held from 21st October 2021 to 29th November 2021 and has satisfactorily completed the course.



Mr. Yeswanth Patiparthi
Director




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CERTIFICATE

This is to Certify that *Mr. Ms. TENDAKOTA SRIRAMYA*
Roll Number *18U41A0449* (studying B.Tech(ECE) at DADJ
INSTITUTE OF ENGINEERING AND TECHNOLOGY has
successfully completed *Internship for 2 weeks in Networking*
with effect from *11/10/2021*

BSNL wishes him/her all the best for a bright future


Asst. General Manager (Training)
BSNL, Visakhapatnam

Date : *30/10/2021*
ID : *2021MR450*





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Certificate

*This is to certify that **Mr. B. Balaji of Dadi Institute of Engineering & Technology, Vinukhapattanam** has participated in the "Online Internship Programme on Machine Learning with MATLAB" held from 21st October 2021 to 29th November 2021 and has satisfactorily completed the course.*




Mr. Yeshwanth Parthipathi
Director



एडिटेड एडुटेक एकेडमी
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

VOODA MEGHANA

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By  academy

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID :2e915974bb37757e588c958ad70a2e28
Student ID :STU674e17a1066b41598953377



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All India Council for Technical Education



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National Educational Alliance for Technology



EduSkills

Nation Building Through Skills



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This is to certify that

SRI PADMA HRUSHIKESH KONATHALA

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By **aws** academy

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID :c226a26896a993ae42106c2cc305368
Student ID :8TU613745bcb9caf1631012284



ऑनलाइन तंत्रज्ञान शिक्षण परिषद
All India Council for Technical Education



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शिक्षण व तंत्रज्ञान क्षेत्रातील अग्रेसर
National Educational Alliance for Technology



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This is to certify that

KOTNI SWATHI

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By  academy

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID : 01551ebd72255b218af924feb9b31c
Student ID : 8TU60e546f0975a61635638640



अखिल भारतीय तकनीकी शिक्षा परिषद
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National Educational Alliance for Technology



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Virtual Internship Completion Certificate

This is to certify that

KUSHAL MANOHAR MALLA

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By  academy

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID : 7944cb1340078bb25eb3c5412eaa0714
Student ID : STU60f17a19bdc861626438169



ऑल इन्डिया मशीनल इंजिनियरिंग
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N·E·A·T
श्रीलिंगम के लिए राष्ट्रीय शैक्षणिक गठबंधन
National Educational Alliance for Technology



EduSkills
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

REDDY LOHIT KUMAR

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By  academy

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID :Se2021d2b7e6b9a4696a0e50412e9b640
Student ID :STU61373a4cdcca61631009356



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वेशल्स प्लांट, विशाखापत्तनम - 530012, आ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021

CERT.NO6442/26.10.2021

Date: 06/12/2021

CERTIFICATE

This is to certify that Miss. KOTHALA POORNA RAJESWARI D/o Shri KOTHALA PAPARAO studying B.Tech (EEE) in DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 26.10.2021 to 25.11.2021.

During the above period her CONDUCT & CHARACTER were found **Very Good** and we wish her a bright future.


(G Kuru Murthy)

Dy. General Manager (HRDC & Security)

DR. GENERAL MANAGER (HRDC & SECURITY)
Dy. General Manager (HRDC & Security)



Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skill Development & Trainings, Govt. of Andhra Pradesh)



Certificate of Participation



Cert.No. SDC/PLC/0505

Regd Id : 18U41A0209

This is to certify that Mr./Ms./Mrs. Kothala Poorna Rajeswari
of Dadi Institute of Engineering and Technology has successfully
participated in Online Training Program on Industrial Automation with PLC
held from 14-09-2021 to 06-10-2021

Dr. D.V. Rama Koti Reddy
Executive Director
APSSDC

Sri N. Bangaru Raju
MD, APSSDC



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हवी प्लेट्स एंड वेसल्स प्लांट, विराखपत्तनाम - 530012, अ.प्र., भारत.
Bharat Heavy Electricals Limited
Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021

CERT.NO:6376/18.09.2021

Date: 01/11/2021

CERTIFICATE

This is to certify that Mr. PACHHIGOLLA PRASANNA KUMAR
S/o Shri PACHHIGOLLA NOOKAYYA SETTI studying B.Tech (EEE) in
DADI INSTITUTE OF ENGINEERING & TECHNOLOGY,
ANAKAPALLI Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam
from 18.09.2021 to 16.10.2021.

During the above period his CONDUCT &
CHARACTER were found Very Good and we wish him a bright future.


(G Kuru Murthy)

Dy. General Manager (HRDC & Security)

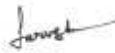
Certificate of Training

Rongali Ramya

from Dadi Institute Of Engineering & Technology (A NAAC Accredited Institute) has successfully completed a 6-week online training on **AutoCAD**. The training consisted of Interface, Drawing Aids & Basic Objects, Complex Objects & Object editing, Blocks & Annotations, Plotting & Introduction to 3D, and The Final Project modules.

In the final assessment, Rongali scored 50% marks.

We wish Rongali all the best for future endeavours.



Sarvesh Agarwal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2021-10-16

Certificate no. : 1008072D-969A-EF73-54CD-03EED7405C0D

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Rongali Ramya

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

11/22/2021

Digital badge

<https://www.credly.com/go/7inFfwRO>



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, NAAC accredited Institute & permanently affiliated to JNTUK, Kakinada)

An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Institute.

NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Phone: 08924-221111 / 221122 / 9963981111, www.diet.edu.in, E-mail: info@diet.edu.in

Certificate of merit

This is to certify that RONGALI RAMYA has successfully completed two week Training Program and in Recognition of his/her Outstanding performance in "Virtual C - Program learning" organized by Department of Training and Placement Cell, Dadi Institute of Engineering and Technology, Anakapalle, Visakhapatnam. From 22nd to 27th June & 06th to 11th July 2020

Mr. R. Suneel Kumar
Training & Placement Officer

Dr. K.S. Eswararao
Vice Principal

Dr. Ch. Prabhakara Rao
Principal

Sri Dadi Ratnakar
Chairman



राष्ट्रीय इस्पात निगम लिमिटेड Rashtriva Ispat Nigam Limited

विशाखापत्तनम इस्पात संयंत्र Visakhapatnam Steel Plant

तकनीकी प्रशिक्षण केंद्र, Technical training Institute

विशाखापत्तनम Visakhapatnam-530031

Reg.No : 100005402

प्रमाणपत्र Certificate



सम्मानित विद्यार्थी/विद्यार्थिनी This is to certify that Mr./Ms. R.RAMYA student of

आपका/आपकी (Your course Branch) 4 BE/B TECHEEE ELECTRICAL विभाग से from

DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY ANAKAPALLE has undergone

4 Week प्रशिक्षण training विभाग/विभाग

आपका/आपकी in Visakhapatnam Steel Plant in CENTRAL MAINTENANCE ELECTRICAL (CME) विभाग से

department from 27-09-2021 से 23-10-2021 तक तक किया।

आपका/आपकी The Project Title is STUDY OF OVERHAULING TECHNIQUES FOR AC MOTORS से

प्रशिक्षण अवधि के दौरान आपका/आपकी has been conduct during the period of training is GOOD

आपका/आपकी
Department of Training and Placement
DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
NH-16, Anakapalle - 531002, Visakhapatnam, A.P.
Phone: 08924-221111 / 221122 / 9963981111, www.diet.edu.in, E-mail: info@diet.edu.in

आपका/आपकी Place : Visakhapatnam

आपका/आपकी Date : 26-10-2021



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वसेल्स प्लांट, विखापत्ताम - 530012, अ.प., भारत .

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021

CERT.NO6440/26.10.2021

Date: 06/12/2021

CERTIFICATE

This is to certify that Miss. SARISA SRI NOWSHYA D/o Shri SARISA VENKAT studying B.Tech (EEE) in DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 26.10.2021 to 25.11.2021.

During the above period her CONDUCT & CHARACTER were found **Very Good** and we wish her a bright future.


(G Kuru Murthy)

Dy. General Manager (HRDC & Security)



राष्ट्रीय इस्पात निगम लिमिटेड Rashtriva Ispat Nigam Limited
विशाखापत्तनम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केंद्र, Technical training Institute
विशाखापत्तनम Visakhapatnam-530031

Reg. No. : 100005329
प्रमाणपत्र Certificate



प्रमाणित किया जाता है कि श्री/ This is to certify that Mr./Ms. LALAM VANDANA student of
(उस/वह) (Year/course/Branch) 4/BE/B TECH/EEE/ELECTRICAL विद्यार्थी/से from
DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI से has undergone
4 Week प्रशिक्षण training विशाखापत्तनम इस्पात
संयंत्र के at Visakhapatnam Steel Plant in ELECTRICAL REPAIR SHOP (ERS) विभागों से
department from दि. 27-09-2021 से to 23-10-2021 प्राप्त तक किया।

परियोजना शीर्षक The Project Title is DIFFERENT TYPES OF AC WINDING AND ITS PROCEDURES, WINDING DATA COLLECTION है।
प्रशिक्षण अवधि में उसका आचरण His/Her conduct during the period of training
is **GOOD** है।

स्थान Place : Visakhapatnam



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

श्री प्लेट्स एंड वेसल्स प्लांट, विशाखापत्तनम - 530012, अ.प., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021

CERT.NO:6378/18.09.2021

Date: 26/10/2021

CERTIFICATE

This is to certify that Mr. APPANA SAI SASI KUMAR S/o Shri APPANA PRASAD studying B.Tech (EEE) in DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 18.09.2021 to 16.10.2021.

During the above period his CONDUCT & CHARACTER were found Very Good and we wish him a bright future.


(G Kuru Murthy)

Dy. General Manager (HRDC & Security)



अखिल भारतीय तकनीक शिक्षण परिषद
All India Council for Technical Education



N-E-A-T
शिक्षण के लिए उच्च डिजिटल गुणवत्ता
National Educational Alliance for Technology



EduSkills
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

BUDDHA LOHIDHAR

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during Oct - Dec 2021

Supported By  academy

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID : 1e6c706963500299cfc910430e813d46
Student ID : STU613702f03a5281630995184


No. IGAD/D/Project /2020

Dt. 12.2021

CERTIFICATE

This is to certify that **Ms. K.SHALINI**, B.Tech.,(EEE) Student in Dadi Institute of Engineering & Technology, Visakhapatnam has successfully completed her Internship in the field of **"ELECTRONICS & ELECTRICAL ENGINEER"** in M&EE Department of Visakhapatnam Port Trust from 29.11.2021 to 13.12.2021.

Her performance is **"GOOD"** and conduct during the said Period is **"SATISFACTORY"**.


For SECRETARY
సీనియర్ సెక్రటరీ
విశాఖపట్నం పోర్ట్ ట్రస్ట్
Visakhapatnam Port Trust,
విశాఖపట్నం-530 035
Visakhapatnam -530 035



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी प्लेट्स एंड वेसल्स प्लांट, विशाखापत्तनम - 530012, अ.प्र., भारत.

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021


CERT.NO6421/01.10.2021

Date: 06/11/2021

CERTIFICATE

This is to certify that Miss. KAYALA MAHESWARI D/o Shri KAYALA KANAKARAO studying B.Tech (EEE) in DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 01.10.2021 to 30.10.2021.

During the above period her CONDUCT & CHARACTER were found Very Good and we wish her a bright future.


(G Kuru Murthy)

Dy. General Manager (HRDC & Security)





भारत हेवी इलेक्ट्रिकल्स लिमिटेड

इंजी. प्रोद्योग. एवं वैद्युत प्लांट, विशाखापत्तनम - 530012, अ.प्र., भारत

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021


CERT.NO6415/01.10.2021

Date: 06/11/2021

CERTIFICATE

This is to certify that Miss. KOPPISETTI SAI SATYA JAHNAVI D/o Shri KOPPISETTI LAKSHMI PRASANNA studying B.Tech (EEE) in DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 01.10.2021 to 30.10.2021.

During the above period her CONDUCT & CHARACTER were found **Very Good** and we wish her a bright future.


(G Kuru Murthy)

Dy. General Manager (HRDC & Security)

No. IGAD/D/Project /2020

Dt. 12.2021

CERTIFICATE

This is to certify that **Ms. M. VENKATA SAGARIKA**,
B.Tech.,(EEE) Student in Dadi Institute of Engineering & Technology,
Visakhapatnam has successfully completed her Internship in the field of
"ELECTRONICS & ELECTRICAL ENGINEER" in M&EE
Department of Visakhapatnam Port Trust from 29.11.2021 to 13.12.2021.

Her performance is **"GOOD"** and conduct during the said
Period is **"SATISFACTORY"**.


For **SECRETARY**

सचिव /SECRETARY
विशाखपट्टणम पोर्ट ट्रस्ट
Visakhapatnam Port Trust
विशाखपट्टणम-530 035
Visakhapatnam -530 035



राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखापत्तनम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केंद्र, Technical training Institute
विशाखापत्तनम Visakhapatnam-530031

Reg.No. : 100005452
प्रमाणपत्र Certificate



प्रमाणित किया जाता है कि श्री /This is to certify that Mr./Ms. **M C V N.GANESH KUMAR** student of

(वर्ष/पाठ्यक्रम/शाखा-Year/course/Branch) **4/BE/B TECH/EEE/ELECTRICAL** विद्यापीठ ने from

DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY ANAKAPALLE से has undergone

4 Week प्रशिक्षण training विशाखापत्तनम इस्पात

संयंत्र के at Visakhapatnam Steel Plant in **CENTRAL MAINTENANCE ELECTRICAL (CME)** विभाग में
department from दि. **27-09-2021** से to **23-10-2021** प्राय तक किया |

परियोजना शीर्षक The Project Title is **STUDY OF MAINTENANCE ASPECTS OF DIFFERENT TYPES OF MOTORS
IN ROLLING MILLS** है।

प्रशिक्षण अवधि में उनका आचरण His/Her conduct during the period of training
is **GOOD** है।

स्वतः/Place : Visakhapatnam

दि./Date : 26-10-2021


राष्ट्रीय इस्पात निगम लिमिटेड
Department of Training for Operations
विशाखापत्तनम इस्पात संयंत्र
विशाखापत्तनम, आंध्र प्रदेश (विशाखापत्तनम)
विशाखापत्तनम इस्पात संयंत्र, विशाखापत्तनम
विशाखापत्तनम इस्पात संयंत्र, विशाखापत्तनम
विशाखापत्तनम इस्पात संयंत्र, विशाखापत्तनम



राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखापत्तनम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केंद्र, Technical training Institute
विशाखापत्तनम Visakhapatnam-530031

Reg.No. : 100005520
प्रमाणपत्र Certificate



प्रमाणित किया जाता है कि श्री /This is to certify that Mr./Ms. **M S D S.KIRAN YADAV** student of
(वर्ष/पाठ्यक्रम/शाखा-Year/course/Branch) **4/BE/B TECH/EEE/ELECTRICAL** विद्यार्थी ने from
DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY ANAKAPALLE से has undergone
4 Week प्रशिक्षण training विशाखापत्तनम इस्पात
संयंत्र के at Visakhapatnam Steel Plant in **CENTRAL MAINTENANCE ELECTRICAL (CME)** विभाग में
department from दि. **27-09-2021** से to **23-10-2021** प्राप्त तक किया |

परियोजना शीर्षक The Project Title is **STUDY OF MAINTENANCE ASPECTS OF DIFFERENT TYPES OF MOTORS
IN ROLLING MILLS** है।

प्रशिक्षण अवधि में उनका आचरण His/Her conduct during the period of training
is **GOOD** है।

स्वतः/Place : Visakhapatnam
दि./Date : 26-10-2021


अधीक्षक प्रशिक्षण अधिकारी
In-charge Officer
विशेष प्रशिक्षण अधिकारी
Special In-charge Officer
विशेष प्रशिक्षण अधिकारी
Special In-charge Officer
विशेष प्रशिक्षण अधिकारी
Special In-charge Officer
विशेष प्रशिक्षण अधिकारी
Special In-charge Officer



राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखापत्तनम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केंद्र, Technical training Institute
विशाखापत्तनम Visakhapatnam-530031

Reg.No. : 100005380
प्रमाणपत्र Certificate



प्रमाणित किया जाता है कि श्री /This is to certify that Mr./Ms. P.GNANENDRA KUMAR student of
(वर्ष/पाठ्यक्रम/शाखा-Year/course/Branch) 4/BE/B TECH/EE/ELECTRICAL विद्यार्थी ने from
DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY ANAKAPALLE से has undergone
4 Week प्रशिक्षण training विशाखापत्तनम इस्पात
संयंत्र के at Visakhapatnam Steel Plant in CENTRAL MAINTENANCE ELECTRICAL (CME) विभाग में
department from दि. 27-09-2021 से to 23-10-2021 प्राप्त तक किया |
परियोजना शीर्षक The Project Title is STUDY OF OVERHAULING TECHNIQUES FOR AC MOTORS है।
प्रशिक्षण अवधि में उनका आचरण His/Her conduct during the period of training
is GOOD है।

स्वतः/Place : Visakhapatnam
दि./Date : 26-10-2021


In-charge of Training in Electrical
दि. 26-10-2021
विशाखापत्तनम इस्पात संयंत्र
तकनीकी प्रशिक्षण केंद्र
विशाखापत्तनम-530031



अखिल भारतीय तकनीकी शिक्षा परिषद
All India Council for Technical Education



N-E-A-T
श्रीलिंगम विद्यापीठ संशोधन केंद्र
National Educational Alliance for Technology



EduSkills
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

PEDAPATI GNANENDRA KUMAR

Dadi Institute of Engineering & Technology

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during Oct - Dec 2021

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills



Certificate ID : ac9385df48fa4acDa9280d2bff103c4e
Student ID : STU611e05cd2b251629367519



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

हेवी एलेक्ट्रिकल प्लांट, विराटपट्टनम - 530012, ए.प., भारत.

Bharat Heavy Electricals Limited

Heavy Electric & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021

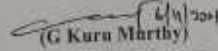
CERT.NO:6422/01.10.2021

Date: 06/11/2021

CERTIFICATE

This is to certify that Mr. POLAMARASETTY POORNA SAI S/o Shri POLAMARASETTY SRINIVASA RAO studying B.Tech (EEE) in DADI INSTITUTE OF ENGINEERING & TECHNOLOGY, ANAKAPALLI Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 01.10.2021 to 30.10.2021.

During the above period his CONDUCT & CHARACTER were found Very Good and we wish him a bright future.


(G. Kuru Marthy)

Dy. General Manager (HRDC & Security)



ISO 9001 ISO 14001 ISO 45001

विशाखपट्टणम पोर्ट ट्रस्ट
VISAKHAPATNAM PORT TRUST



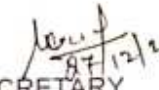
No. IGAD/D/Project /2020

Dt. 12.2021

CERTIFICATE

This is to certify that Ms. SK. NAZEERA PARVEEN, B.Tech.,(EEE) Student in Dadi Institute of Engineering & Technology, Visakhapatnam has successfully completed her Internship in the field of "ELECTRONICS & ELECTRICAL ENGINEER" in M&EE Department of Visakhapatnam Port Trust from 29.11.2021 to 13.12.2021.

Her performance is "GOOD" and conduct during the said Period is "SATISFACTORY".


For SECRETARY
सचिव /SECRETARY
विशाखपट्टणम पोर्ट ट्रस्ट
Visakhapatnam Port Trust,
विशाखपट्टणम-530 035
Visakhapatnam -530 035

Participatory learning

Business club activities

No of Participants : 20
Organized by : MBA Department – Team Wisdom

Brief Summary :

As a part of the business club activity, all the MBA students and the MBA Department faculty gathered at Seminar Hall-2. The b-club activity was organized by Team Wisdom. The session on Just A Minute (JAM).



Every Team participated actively in the jam session. Everyone individual from their team came on the stage and share their opinion and thoughts on their own topics on jam session.






The jam session topic introduced in this activity by the Teams are:

- Team Wisdom – Customer Service, Nature, Agriculture, Business strategy.
- Team Conquerors – Self Motivation, Technology, About Mahabharata, Down Detector.
- Team Avengers – About Lakshmi Agarwal , MS Dhoni, Football Player Mitesh kumar, About Nick Vujicic.
- Team Quest - Mokshagundam Visvesvaraya, About her father, Surgical Strike, Social Media.
- Team Tycoons – Self Details, About MBA, Friendship, Indian Forestman .

Our faculty Mr.A.Kiran kumar sir (Dep of MBA) took the initiative and motivated us with much more new ideas and Mrs. Devasree mam (Dep of MBA) mentioned few key elements regarding jam session and supported us with Great Spirit. Our faculty Mrs. J.Sowmya madam (Dep of MBA) also joined us and gave us many valuable suggestions regarding the jam session.

The jam session conducted smoothly with all the members of active participants and made it a successful ones. In this business club activity, we learnt many things and acquired many ideas and knowledge.

THANK YOU
 TEAM WISDOM

MBA II – Year

S.NO	HT NO	STUDENT NAMES
1	20U41E0001	ADARI JAGAN MOHAN
2	20U41E0002	ADDEPALLI PRIYANKA
3	20U41E0003	BALAGA SAI KUMAR
4	20U41E0004	BHIMUNI PAVAN KUMAR
5	20U41E0005	CHANDAKA NAGALAXMI
6	20U41E0006	CHEKURI JYOSHNA DEVI
7	20U41E0007	DHARMISETTY SAIKUMAR

8	20U41E009	LOTLA LALITHA SWARNA KUMARI
9	20U41E0010	MUDUNURI SRI KAVYA
10	20U41E0011	MYLAPALLI GUNA SAILUSHA
11	20U41E0012	PANDURI PRADEEP
12	20U41E0013	PENTAKOTA BHAVYAVANI
13	20U41E0014	PENTAKOTA DRAKSHAYANI
14	20U41E0016	SERAM DIVYASREE
15	20U41E0017	SEVA LAKSHMI MANASA
16	20U41E0018	SURISSETTI NALINI
17	20U41E0020	YALAMANCHILI SANTHI KUMARI
18	20U41E0021	YENUGUPALLI INDRAJA
19	20U41E0022	GRANDHI PRATYUSHA
20	20U41E0023	KARRI CHARISHMA SRAVANI

TOTAL STUDENTS : 22
TOTAL ATTENDEES : 20
TOTAL ABSENTEES : 2



OUTCOME : finally this session helped us to increase the ability of spontaneous speech without any preparation.



**DADI INSTITUTE OF ENGINEERING &
TECHNOLOGY**
(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to
JNTUK, Kakinada)

NAAC Accredited Institute
An ISO 9001:2008, 14001:2004 & OHSAS 18001:2007 Certified Institute
NH-16, Anakapalle, Visakhapatnam-531002, Andhra Pradesh

DEPARTMENT OF MASTERS OF BUSINESS ADMINISTRATION (MBA)

BUSINESS CLUB ACTIVITY

AD-MAKING SESSION : TEAM WISDOM

Date of Event : 02-12-2021
Venue : Seminar Hall - 2
Time : 11:50 am to 1:30pm
Beneficiaries : MBA II-year
No of Participants : 19
Organized by : MBA Department - Team Wisdom

Brief Summary :

As a part of the business club activity, all the MBA students and the MBA Department faculty gathered at Seminar Hall-2. The b-club activity was organized by Team Wisdom. The session on Ad-making.



Every Team participated with their innovative thoughts and presented their chart presentation and also enacted on their own products. They first started with their enact of advertising the product to the audience. Later, they clearly explained about their product-uses, work process, advantages, disadvantages with the help of chart presentation and by setting their own designations like product designer, product developer, testing engineer, sales executive, etc.



The ad-making products introduced in this activity by the Teams are:

- Team Wisdom – Dream Big [DB] LED with Touch Fingerprint Module
- Team Conquerors – Explore India(Travelling App)
- Team Avengers – Earth Herbs(Organic skincare and beauty products)
- Team Quest - E-bike(electronic bike)
- Team Tycoons – Mr.Big Chocolate

Our faculty Mr.A.Kiran kumar sir (Dep of MBA) took the initiative and motivated us with much more new ideas and Mr. Babji sir (Dep of MBA) mentioned few key elements in the presentation and supported us with Great Spirit. Our faculty Mrs. J.Sowmya madam (Dep of MBA) also joined us and gave us many valuable suggestions regarding the presentation.



Finally, prize distribution done by each faculty to the winner team and the runner up team.

The ad-making session conducted smoothly with all the members of active participants and made it a successful ones. In this business club activity, we learnt many things and acquired many ideas and knowledge.

MBA II – Year

S.NO	HT NO	STUDENT NAMES
1	20U41E0001	ADARI JAGAN MOHAN
2	20U41E0002	ADDEPALLI PRIYANKA
3	20U41E0003	BALAGA SAI KUMAR
4	20U41E0005	CHANDAKA NAGALAXMI
5	20U41E0006	CHEKURI JYOSHNA DEVI
6	20U41E0007	DHARMISSETTY SAIKUMAR
7	20U41E0009	LOTLA LALITHA SWARNA KUMARI
8	20U41E0010	SRI KAVYA
9	20U41E0011	MYLAPALLI GUNA SAILUSHA
10	20U41E0012	PANDURI PRADEEP
11	20U41E0013	PENTAKOTA BHAVYAVANI
12	20U41E0014	PENTAKOTA DRAKSHAYANI
13	20U41E0017	SEVA LAKSHMI MANASA
14	20U41E0018	SURISSETTI NALINI
15	20U41E0019	SURISSETTI PAVANI
16	20U41E0020	YALAMANCHILI SANTHI KUMARI
17	20U41E0021	YENUGUPALLI INDRAJA
18	20U41E0022	GRANDHI PRATYUSHA
19	20U41E0023	KARRI CHARISHMA SRAVANI

TOTAL STUDENTS : 22
TOTAL ATTENDEES : 19
TOTAL ABSENTEES : 03



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NH-16, Anakapalle, Visakhapatnam-531002, Andhra Pradesh

DEPARTMENT OF MASTERS OF BUSINESS ADMINISTRATION (MBA)

BUSINESS CLUB ACTIVITY

ECO-FRIENDLY PRODUCT SESSION : TEAM WISDOM

Date of Event : 03-02-2022
Venue : Seminar Hall - 2
Time : 11:00 am to 12:40pm
Beneficiaries : MBA II-year
No of Participants : 15
Organized by : MBA Department - Team Wisdom

Brief Summary :

As a part of the business club activity, all the MBA students and the MBA Department faculty gathered at Seminar Hall-2. The b-club activity was organized by Team Wisdom. The session on ECO-FRIENDLY PRODUCTS.



Every team participated actively in this session. Everyone in every team came forward with their new ideas and thoughts and given the chart presentation. They explained their presentation regarding their products and product process and about their usages and their features .



The eco-friendly products topic introduced in this activity by the Teams are:

- Team Wisdom – plantable product.
- Team Conquerors – plant organic .
- Team Avengers – candy land.
- Team Quest – low wastage products.
- Team Tycoons – bamboo speaker .

Our faculty Dr P.B.Ram kumar sir (Hod of MBA) took the initiative and motivated us with much more new ideas and Mrs. J.sowmya madam (Dep of MBA) mentioned few key elements regarding session and supported us. Our faculty Mr. Y.Babji sir (Dep of MBA) also joined us and gave us many valuable suggestions.



The eco friendly product session conducted smoothly with all the members of active participants and made it a successful ones.

In this business club activity, we learnt many things and acquired many ideas and knowledge.

THANK YOU
TEAM WISDOM

MBA II – Year

S.NO	HT NO	STUDENT NAMES
1	20U41E0001	ADARI JAGAN MOHAN
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12	20U41E0020	YALAMANCHILI SANTHI KUMARI
13	20U41E0021	YENUGUPALLI INDRAJA
14	20U41E0022	GRANDHI PRATYUSHA
15	20U41E0023	KARRI CHARISHMA SRAVANI

TOTAL STUDENTS : 22
TOTAL ATTENDEES : 15
TOTAL ABSENTEES : 7



OUTCOME : Finally this session help us to create innovative ideas when come up with creative and interesting talk, and the creation of such aids can help to develop confidence and communication skills

Student seminars



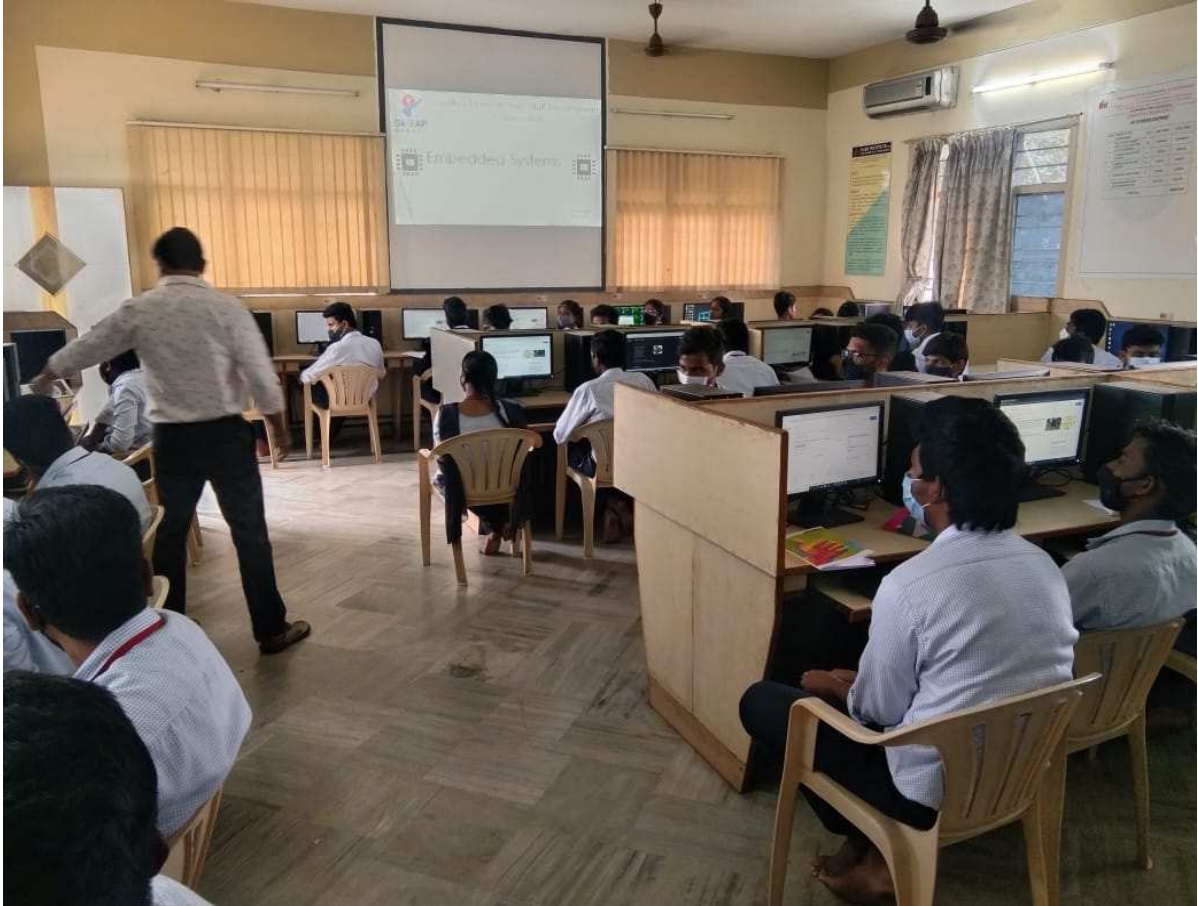
Student seminars are conducted in the class room

Motivational sessions from alumni



The relieved batch student interacting with students

Embedded systems workshop



Students learning programming for Embedded systems

Participative learning



Student roleplay in classroom

Participative learning: Peer discussion



Student peer discussion conducted in class room

Students in computer lab



Students practicing programming languages

Participative learning



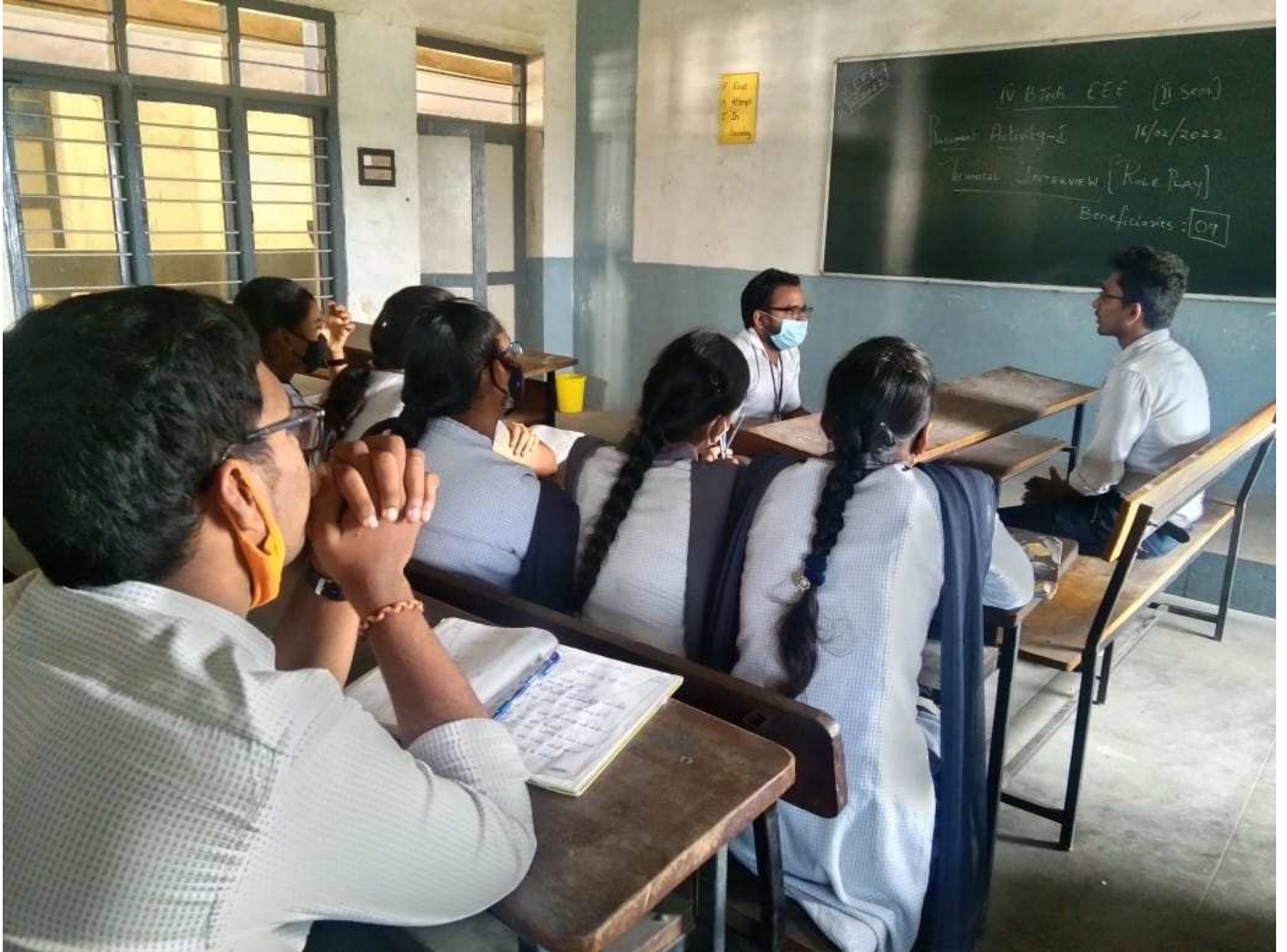
Students seminars conducted

Participative learning



Student seminars in the class

Participative learning



Student mock interviews

Participative learning



Student discussions in the class



Participative learning





Mock technical interviews by students

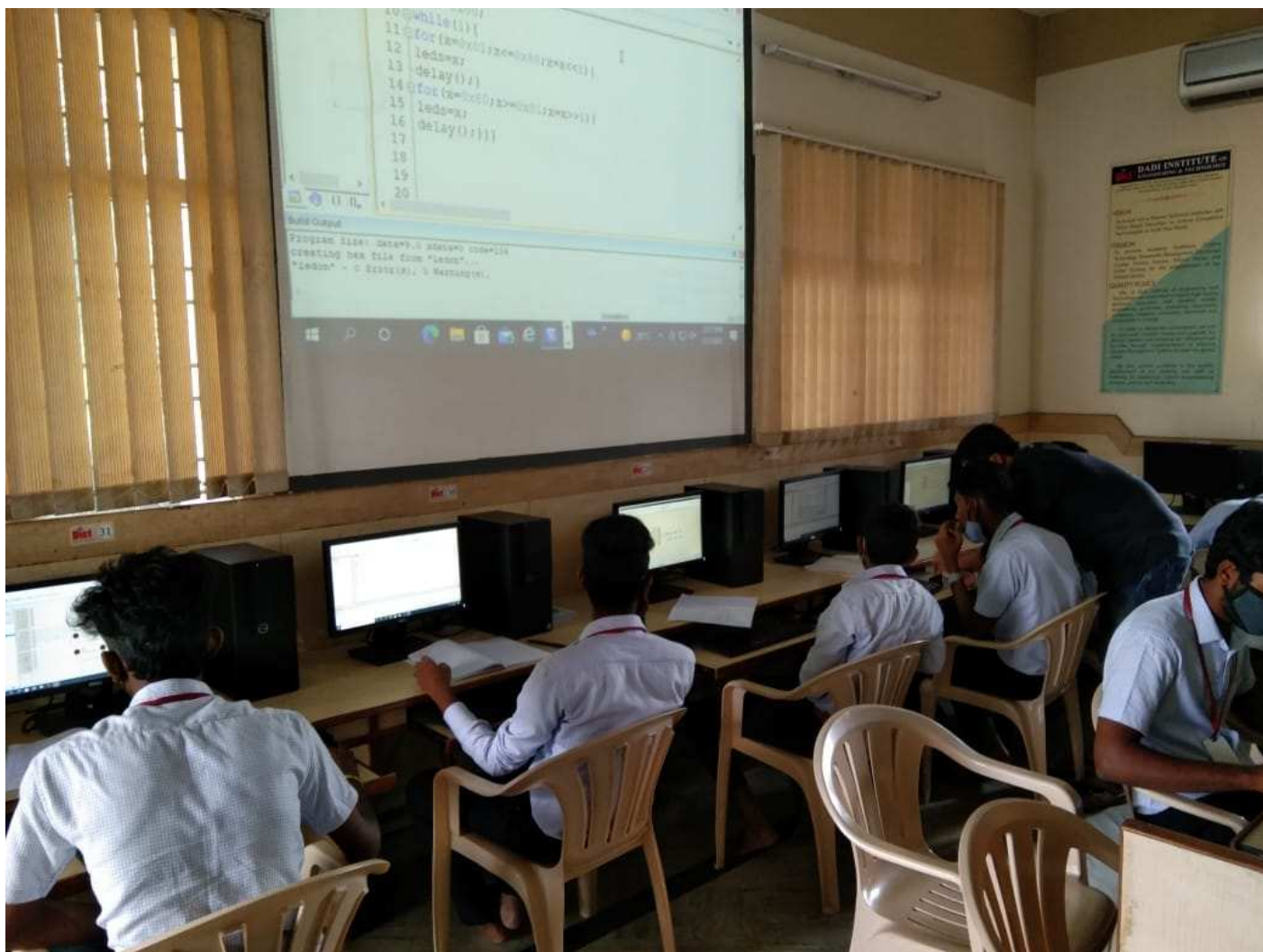
Participative learning



Student peer discussion sessions

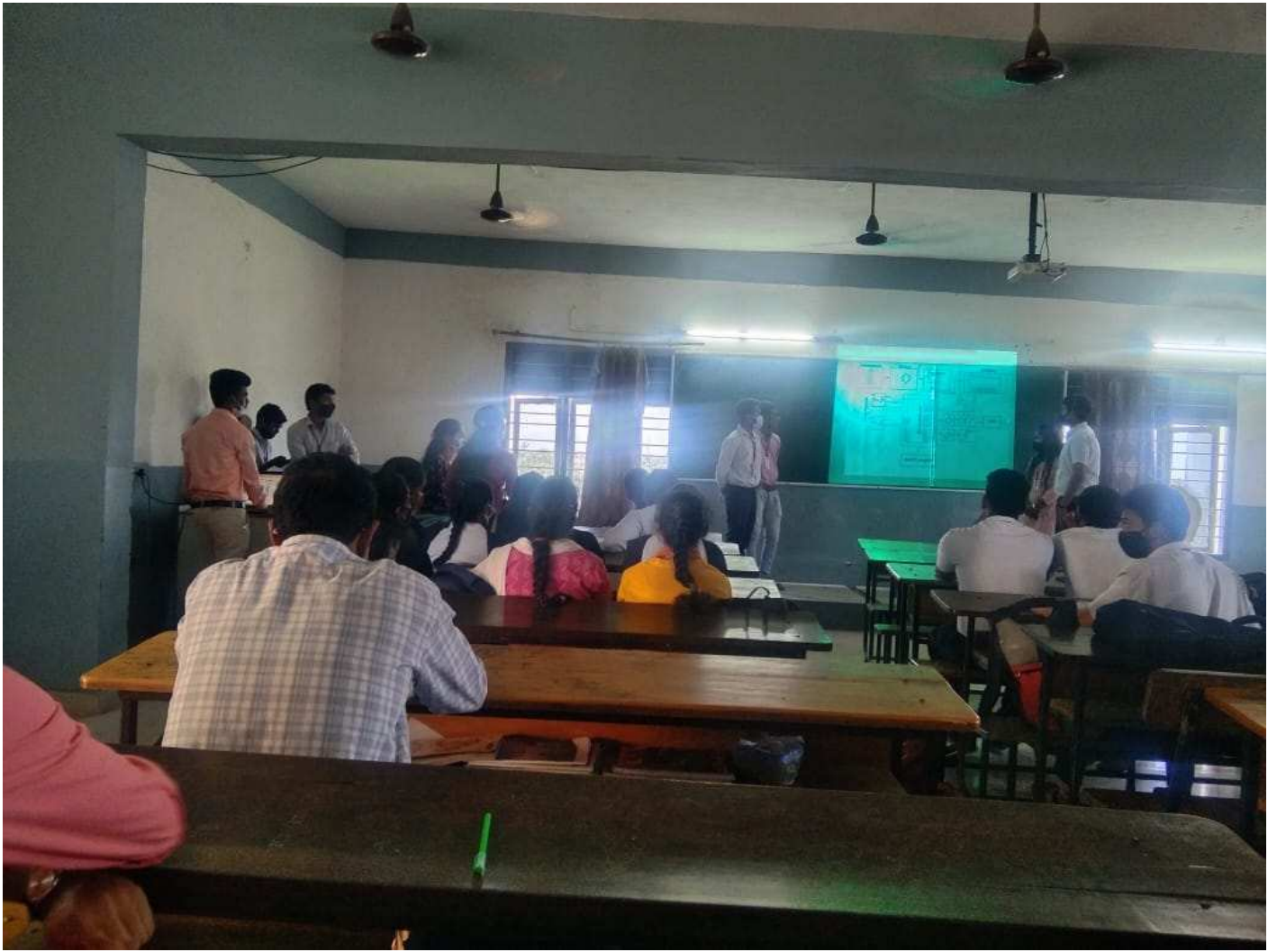


Participative learning

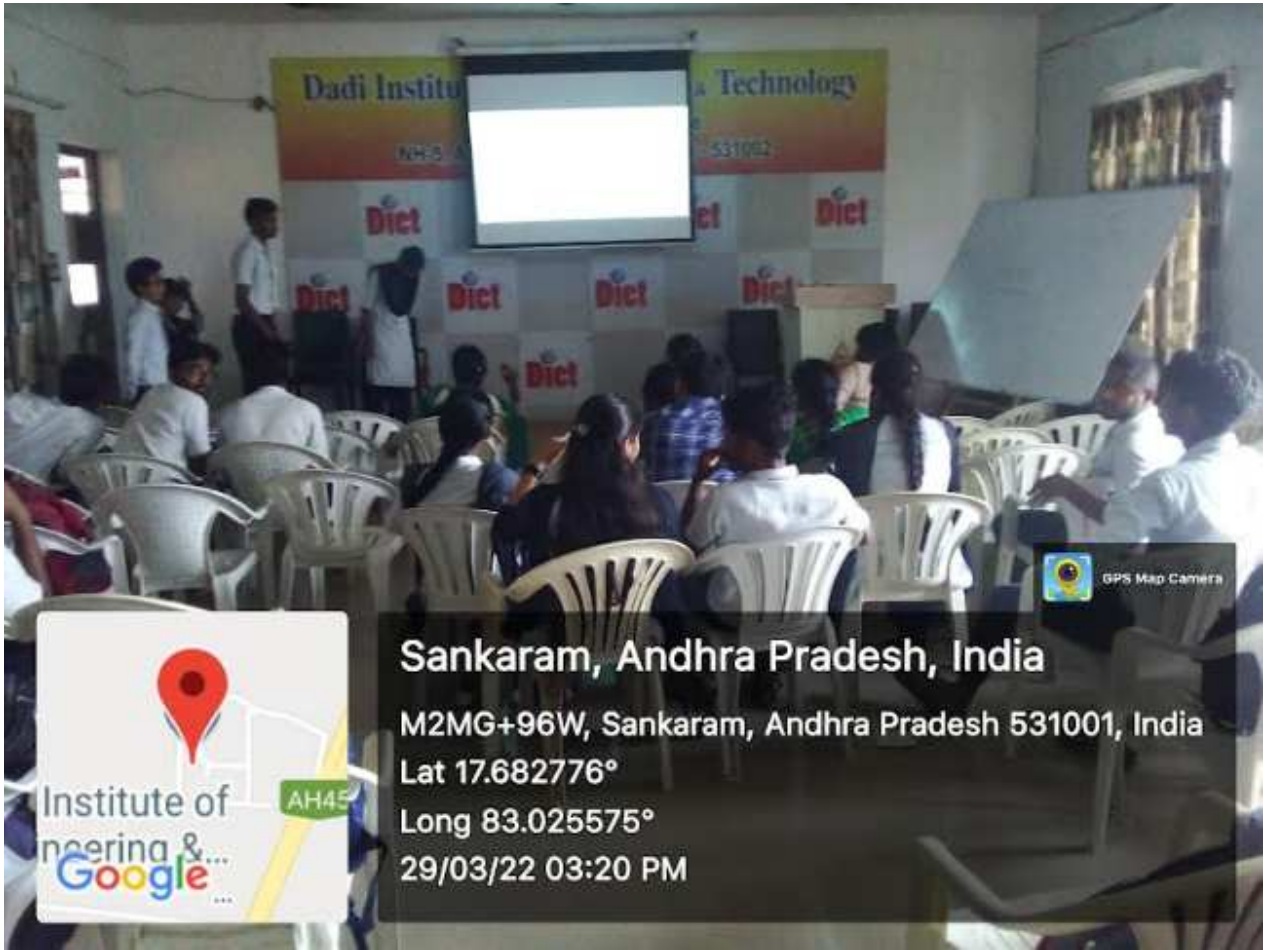


Students learning programmes

Student technical seminars



Students seminars evaluated by faculty



Sankaram, Andhra Pradesh, India

M2MG+96W, Sankaram, Andhra Pradesh 531001, India

Lat 17.682776°

Long 83.025575°

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