



# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +91 9963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

---

## 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**

#### **2016-17:**

In this academic year, Most of the subjects dealt with experiential learning methods such as assignments, problem solving and PPT s apart from chalk & Talk. The department has taken initiative to enrich the teaching and learning in effective way. Awareness sessions conducted for the faculty to upgrade their skill set in teaching methodology.

E-CAD workshop conducting on 21 Nov, 2016 explores the knowledge of students in simulation environment. Electrical CAD software can automate all design tasks and facilitate drafting productivity. You can easily create electrical and electronic diagrams, schematics, control circuit diagrams, and documentation.



Resource person delivered the lecture regarding E-CAD workshop

Conducting a Guest Lecture on “Overview of Thermal Power Plant and Protection system Coordination “was conducted by the Department of EEE in association with DIET IEEE Student Branch under IEEE Vizag Bay Sub Section on 22nd September 2016 at DIET Campus enables students to work in protection system environment.



External review on Student expo regarding practical sessions

Guest lecture on energy saving on 17 dec 2017 by Dr.ch.V.V.S Bhaskara reddy garu enables students the motto of power savings in their individual home appliances.



The Guest of Honour Sri L. Mahendra Nath, DE, APEPDCL, addressing the gathering.



Lecture delivered by NI labview resource person

A Six-Day National Workshop on "NI LABVIEW-Engineering and Technology Practices" was conducted by the Departments of ECE and EEE in association with DIET IEEE Student Branch under IEEE Vizag Bay Sub Section from 4th to 9th of July 2016 at DIET Campus.

## **2017-18:**

In this academic year, The Department show case continuous efforts to explore the hidden skills under experiential & Participatory Learning in conduction of guest lecture on recent trends by prof Sastry vedula and other faculty who contributed the best towards society in this digital era.



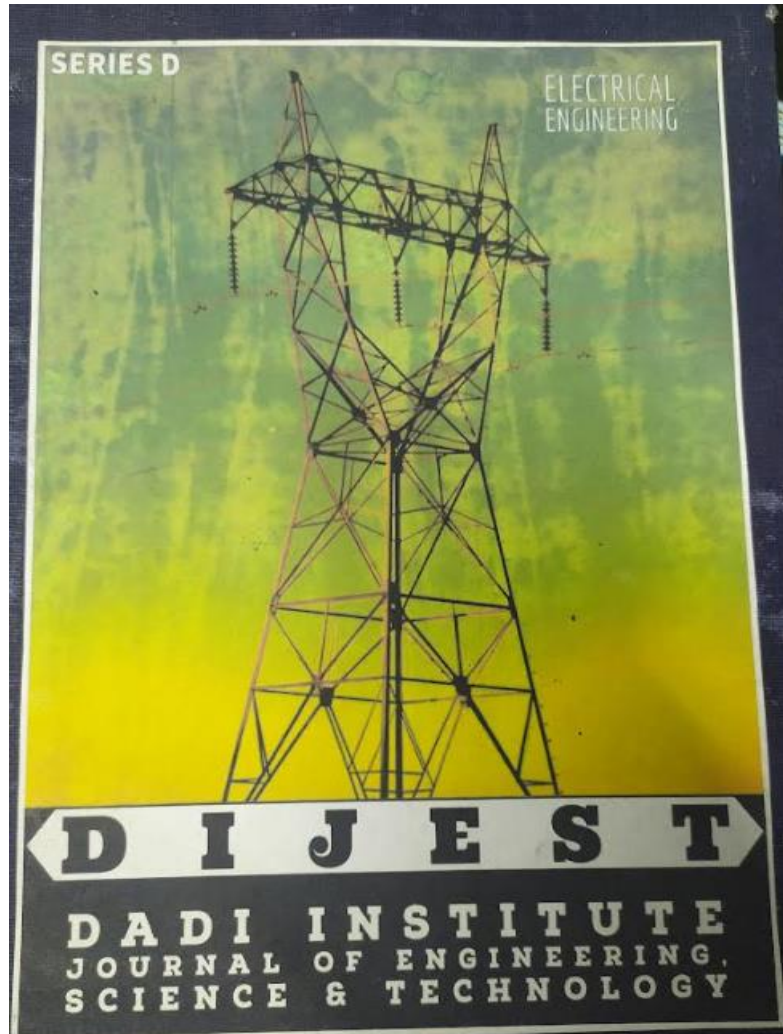
Prof. Vedula Sastry delivering his lecture

On Dec 14-16,2017 workshop conducted on PLC basics that which explores the extension studies in subjects DCS & control Systems. Apart From Regular academics these guest lectures and workshops made the students nearer to real technical world.

## **2018-19:**

In this academic year, As an initiative the teaching towards research and innovation.The Book, DIJEST (Dadi Institute Journal of Engineering Science &

Technology) Series D Published. With this motivation the faculty involves in Faculty development programs to enrich the lesson plans with Usage of ICT tools available.



**2019-20:**

In this academic year, the department of EEE implemented the spark club activities apart from regular teaching evaluation process. The Student involvement is more

predominant in this year which helps them to motivate towards research oriented study.

## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

### SPARKS CLUB ACTIVITY

#### Soft Skills – Classroom activity – 12/11/2019 93

Date of Event : 12-11-2019  
Venue : LH 33 & 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:

We are Glad to inform that the Department of EEE, DIET initiated Activity Oriented Training on a weekly basis to help students overcome limitations in exhibiting their soft skills and practice effective communication to get rid of stage fear through a series of activities out of which Extempore has been conducted on 12/11/2019.

Recorded videos of each participant were played on 14/11/2019 where a detailed analysis of the strengths and weaknesses of every participant were communicated to all the students to that it will help them perform better in the next appearance.



## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

### SPARKS CLUB ACTIVITY

#### TECHNICAL TREASURE HUNT

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

#### Brief Summary:

This event involves the creative challenge initiated by students of 4<sup>th</sup> year who gave phase wise hints to the 2<sup>nd</sup> year students to try and chase the treasure and the team which traced the exact location emerged victorious. Students have actively participated in this brainstorming activity with utmost enthusiasm and this rubbed off to the remaining branch students to organize such activities across the campus. This event was organized under the supervision of Mr. Deleep kumar jami, Associate Professor EEE



## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

#### SPARKS CLUB ACTIVITY

#### SPARKS CLUB STALL ACTIVITIES

Date of Event	: 03-01-2020
Venue	: Girls' Sports Ground
Time	: 1:30 pm to 4:00 pm
Beneficiaries	: II & IV EEE
No of Participants	: 185
Organized by	: EEE Department SPARKS CLUB

#### **Brief Summary:**

In collaboration with professional bodies like IEEE & ISTE, EEE Department Sparks club conducted several stall activities along with inaugurating a professional student hub for girl students as a part of EDC - 'Women in Engineering Cell'. Several spot events along with technical competitions were actively conducted at the college sports ground where around 200 members made use of the opportunity



## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

#### SPARKS CLUB ACTIVITY

#### Leadership Skills – Activity – 11-03-2020

Date of Event	: 11-03-2020
Venue	: Seminar Hall – 2
Time	: 1:30 pm to 4:00 pm
Beneficiaries	: III EEE
No of Participants	: 93
Organized by	: EEE Department SPARKS CLUB

#### Brief Summary:

In this event, the student has to prepare a passage about the current trending issues and has to narrate it in front of other students with a unique idea about the solution to address the burning problems. 04 students has volunteered and narrated the passage effectively while 15 other students have utilized the opportunity to counter the ideas shared by these self motivated participants.





## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

#### SPARKS CLUB ACTIVITY

#### ELECTRICAL, ANALYTICAL & PRESENTATION SKILLS

Date of Event	: 10-12-2019
Venue	: Electrical Measurements Lab
Time	: 1:30 pm to 4:00 pm
Beneficiaries	: IV EEE
No of Participants	: 89
Organized by	: EEE Department SPARKS CLUB

#### **Brief Summary:**

This event is exclusively conducted for IV EEE students to enhance their technical, analytical and presentation skills where a circuit task is assigned to each team to perform individually and also as a group. Circuit once solved needs to be analyzed and sent to the remaining team members for presenting in front of other students of their respective classes



## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

#### SPARKS CLUB ACTIVITY

#### Brain Storming Session –EEE Inductees

<b>Date of Event</b>	<b>: 27-08-2019</b>
<b>Venue</b>	<b>: Seminar Hall – 2</b>
<b>Time</b>	<b>: 1:30 pm to 4:00 pm</b>
<b>Beneficiaries</b>	<b>: III EEE</b>
<b>No of Participants</b>	<b>: 93</b>
<b>Organized by</b>	<b>: EEE Department SPARKS CLUB</b>

#### **Brief Summary:**



As a part of this event, all the newly joined B.Tech. Lateral Entry Students are introduced to each other at Seminar Hall 2 where Prof. M. Sridhar, HOD EEE motivated the students to participate in the activities that are going to be conducted under Sparks Club to enhance their professional skills. Mr. Deleep Kumar Jami has initiated with 4 student volunteers and narrated the passage. The event was conducted smoothly with all active participants and made it a successful one. This brainstorming session helped the Inductees as an icebreaking activity to share fresh ideas among the students.

## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

#### SPARKS CLUB ACTIVITY

#### ELECTRICAL VISION

29-12-2019

<b>Date of Event</b>	<b>: 29-12-2019</b>
<b>Venue</b>	<b>: LH – 33, 4<sup>th</sup> Floor</b>
<b>Time</b>	<b>: 1:30 pm to 4:00 pm</b>
<b>Beneficiaries</b>	<b>: IV EEE</b>
<b>No of Participants</b>	<b>: 45</b>
<b>Organized by</b>	<b>: EEE Department SPARKS CLUB</b>



#### **Brief Summary:**

In this event, students' ideas were taken into consideration for formulation of electrical vision with various aspects of Electrical Fundamentals shared in the presence of their mentors and class teachers. Many students have given their ideas regarding electrical vision. As the students of final years also invited a few 3<sup>rd</sup> years for the activity, because of their seniority in the institute, it added value to existing students also.

## 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 ELECTRICAL AND ELECTRONICS ENGINEERING SPARKS CLUB ACTIVITY

#### Electrical Maze 28-12-2019

<b>Date of Event</b>	<b>: 28-12-2019</b>
<b>Venue</b>	<b>: Electrical Circuits Lab</b>
<b>Time</b>	<b>: 1:30 pm to 4:00 pm</b>
<b>Beneficiaries</b>	<b>: IV EEE</b>
<b>No of Participants</b>	<b>: 29</b>
<b>Organized by</b>	<b>: EEE Department SPARKS CLUB</b>

#### **Brief Summary:**

In this event the IV EEE-B students were given some clues by the Mr.A.Krishna Nag, Associate Professor to solve the maze puzzle. For this activity few students were only considered for solving the puzzle due to their active involvement. The puzzle finally solved by the 03 students with in the last minute.



## **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.

### **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 ELECTRICAL AND ELECTRONICS ENGINEERING**

#### **SPARKS CLUB ACTIVITY**

#### **Creative Skills – Activity – 05-02-2020**

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



#### **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.

## 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 ELECTRICAL AND ELECTRONICS ENGINEERING

#### SPARKS CLUB ACTIVITY

#### Communication Skills – Activity – Role Play

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

#### **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.

## CIRCUIT BUILDING

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

### **Brief Summary:**

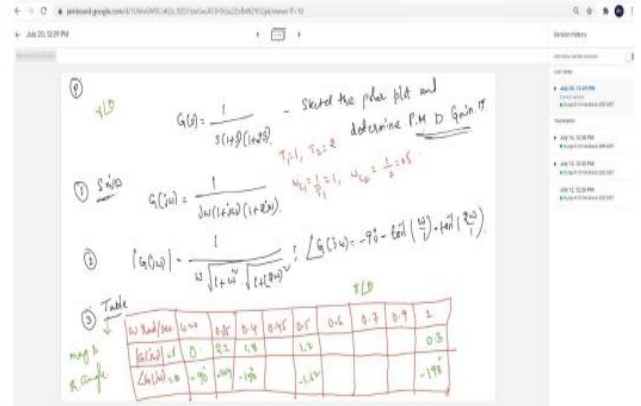
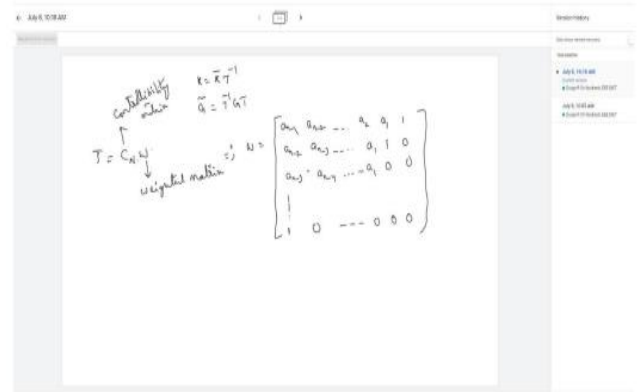
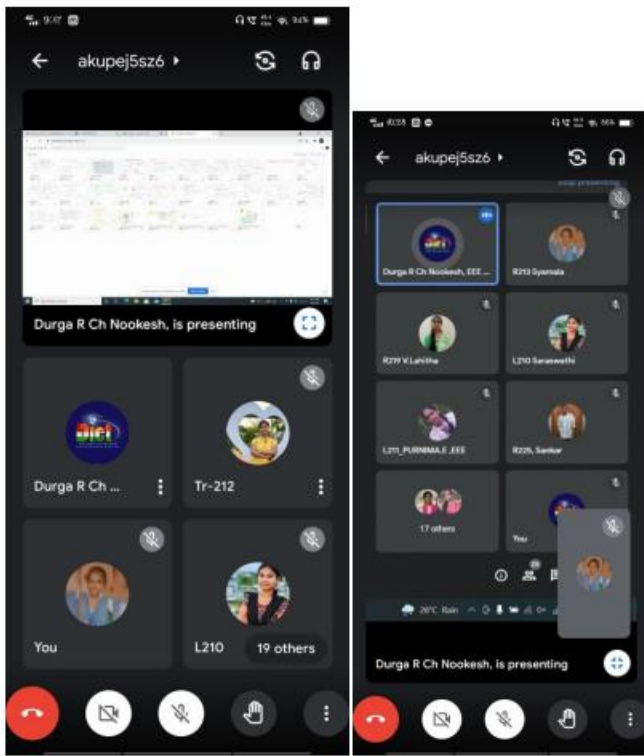
Under EEE Department SPARKS club, IV Btech EEE students have taken an initiative to train their juniors from II B.Tech EEE to build mini circuits which would enhance their laboratory performing skills. Minor circuits were given to a few batches and the same are to be solved without getting any errors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



Jam boards used:

For DCS

[https://jamboard.google.com/d/1O6loGM5CnKlb\\_9ZD7zarGvcAT3H5Gu2ZofbW2YCGjxl/viewer?f=4](https://jamboard.google.com/d/1O6loGM5CnKlb_9ZD7zarGvcAT3H5Gu2ZofbW2YCGjxl/viewer?f=4)

For CS

<https://jamboard.google.com/d/1jppUCcclu3ZH5UW5otL040CQ--onzFOE36TeBQoOIBI/viewer?f=0>

For PS-11

[https://jamboard.google.com/d/1MErIMgz\\_9IVgrLwEckA20Ywk3Juk4M4j8YOTB9gfkWc/viewer?f=0](https://jamboard.google.com/d/1MErIMgz_9IVgrLwEckA20Ywk3Juk4M4j8YOTB9gfkWc/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

## 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

**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 [25<sup>th</sup>-26<sup>th</sup> 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.



## 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. Faculty members were able to select students who are innovative and guided them to build their ideas.



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





**Students Taking part in the Internship at Steel Plant**





# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +91 9963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

---









# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

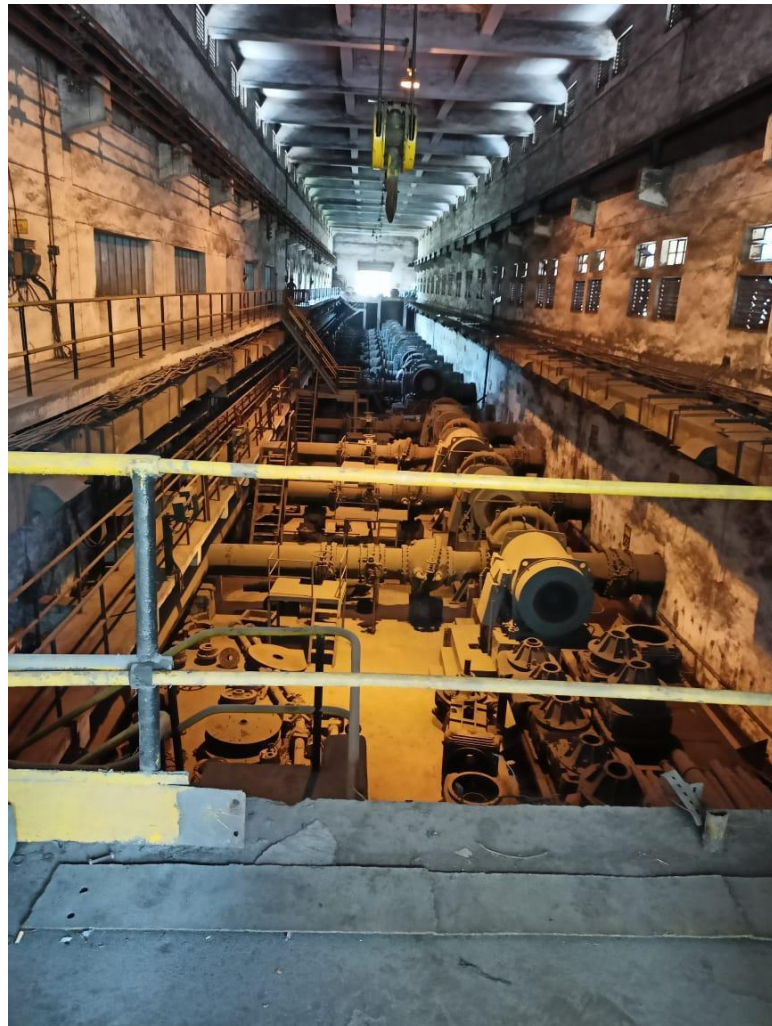
NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +91 9963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

---



## 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



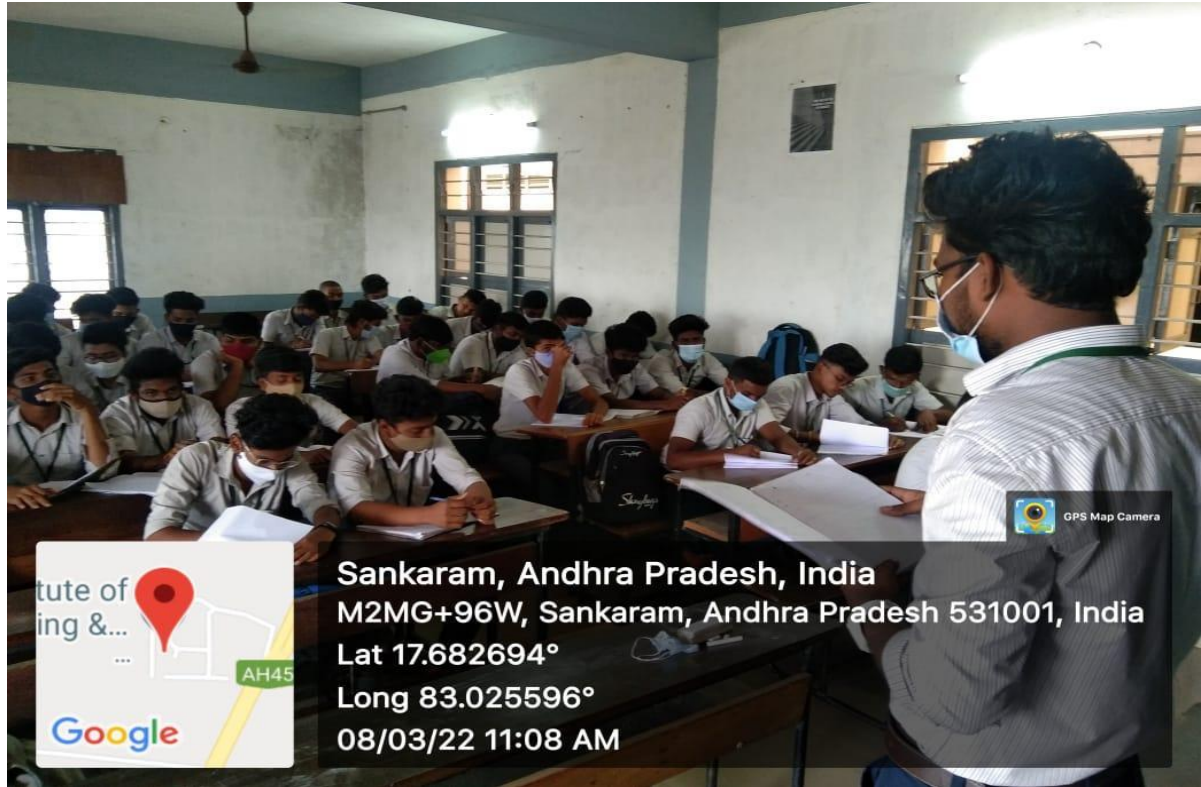
## Alumni Interaction



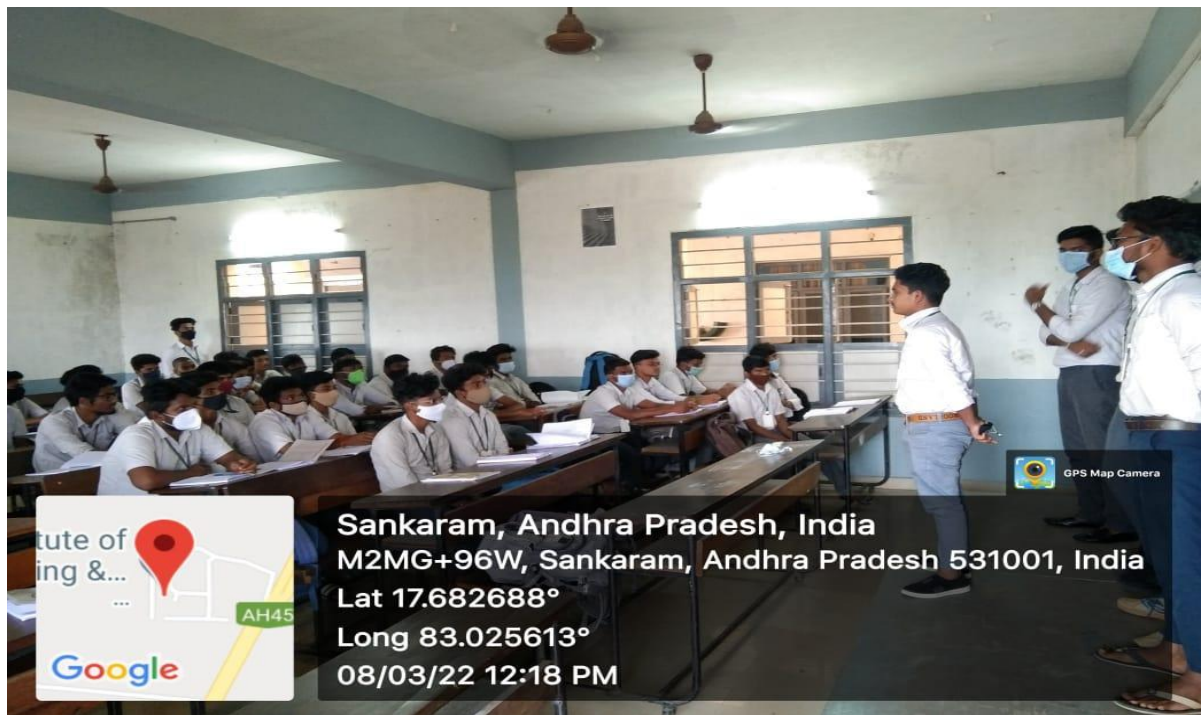
## Alumni Interaction with Final year BTech Students



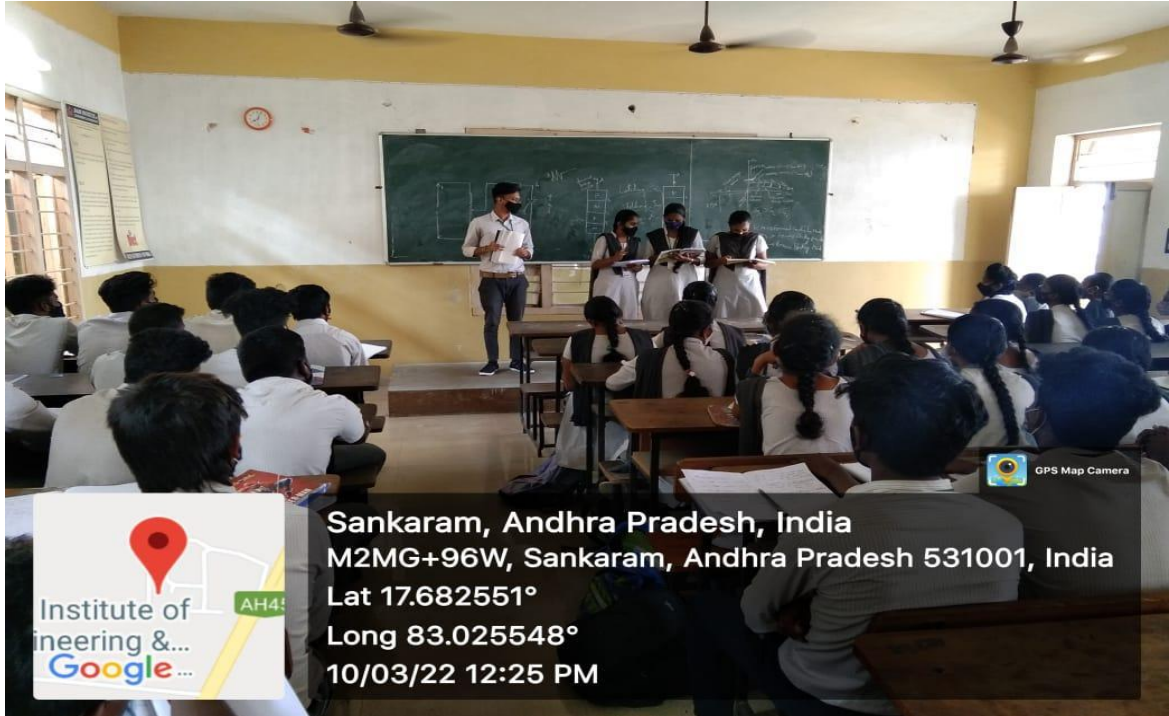
## Technical Narration Activity by Students



## Idea Exchange Contest among students



## Memory Contest for Student Teams



## Pictorial Explanation of Technical Concepts



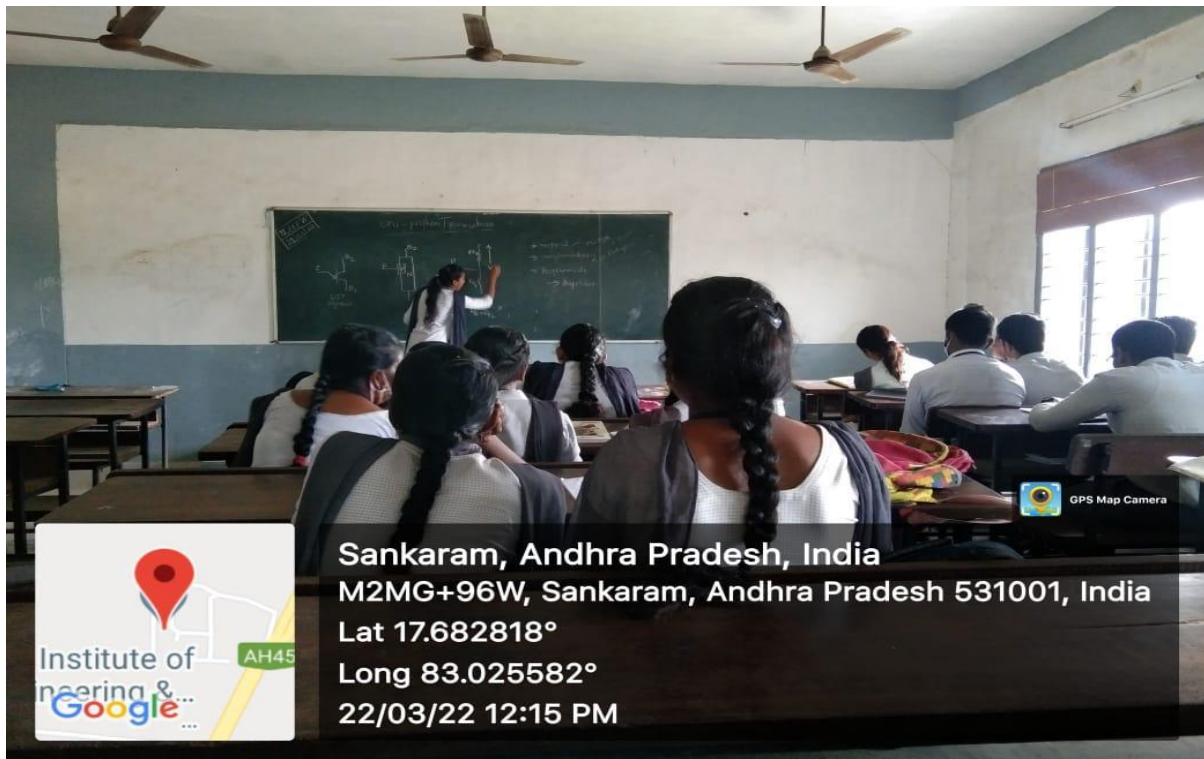


## Group Discussion Activity

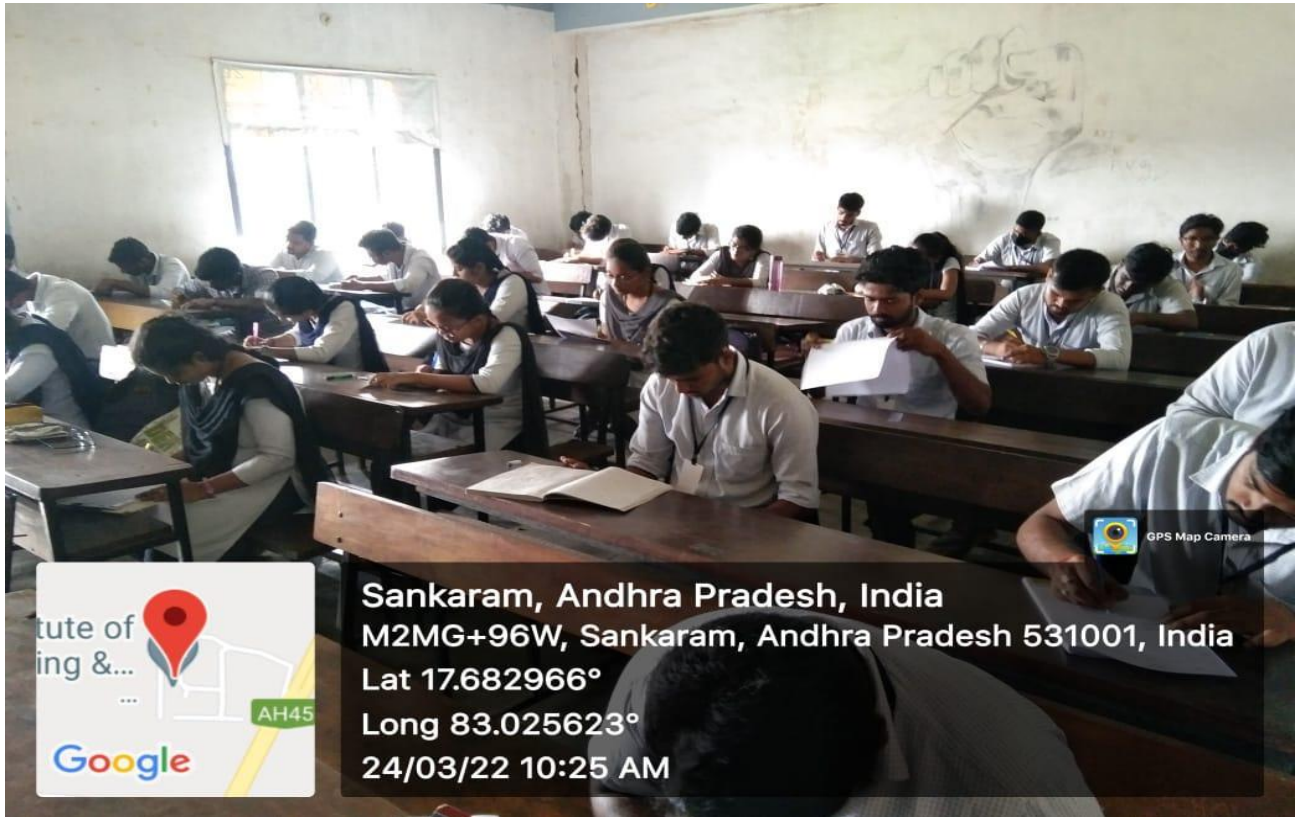




**Student Seminars in class**





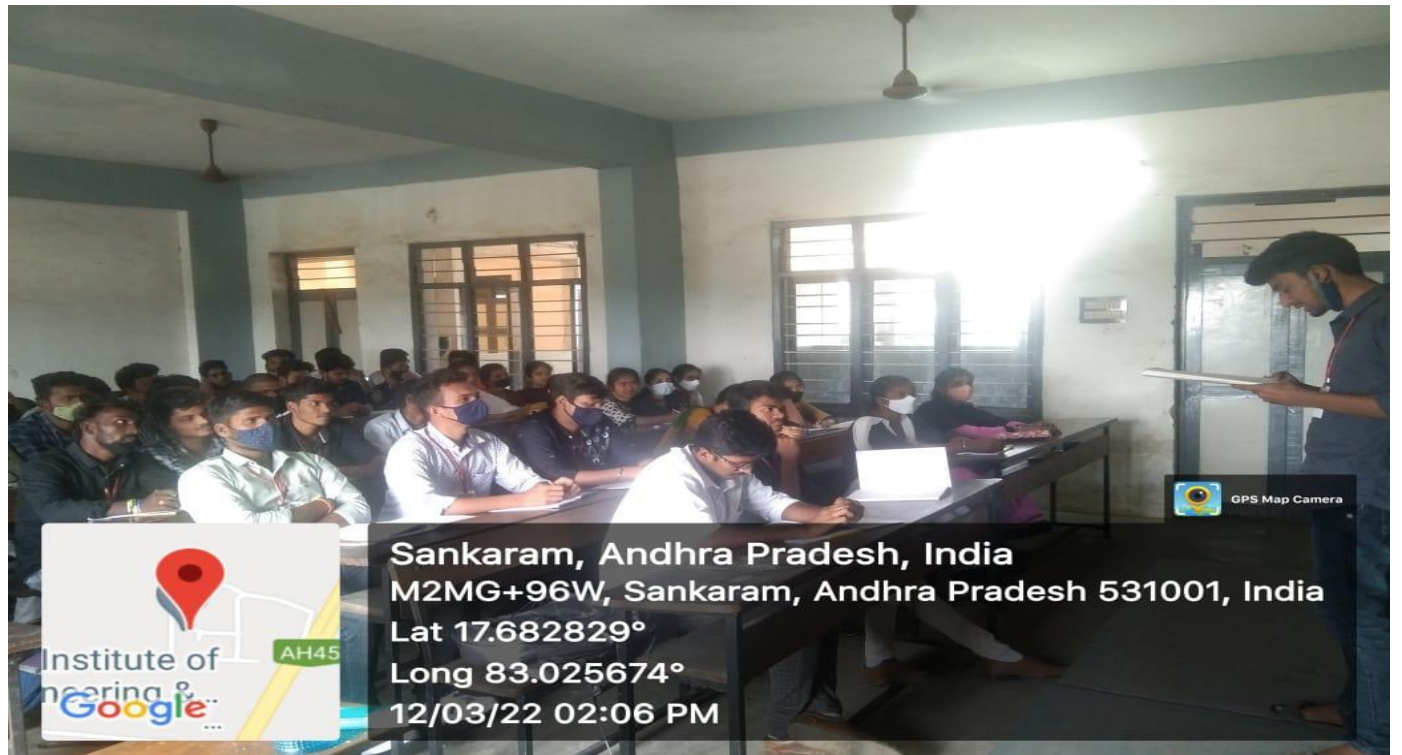


## Technical Essay Writing Competition





## Extempore & Elocution Activity for Students



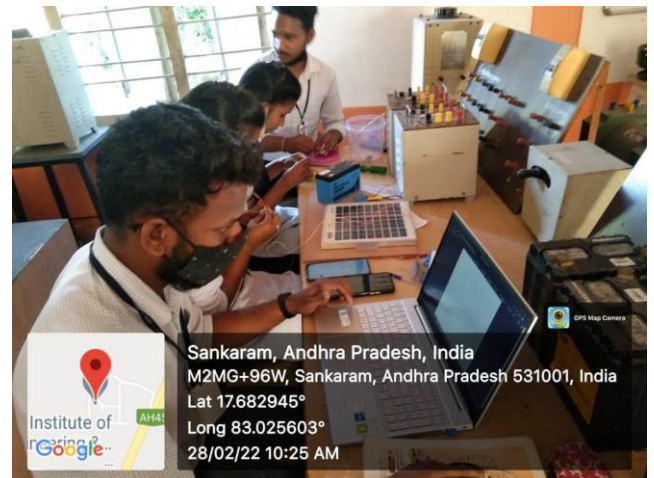
## Public Speaking Contest among Students

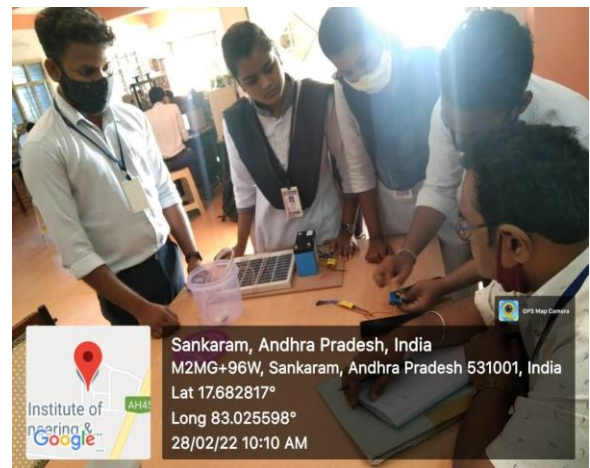
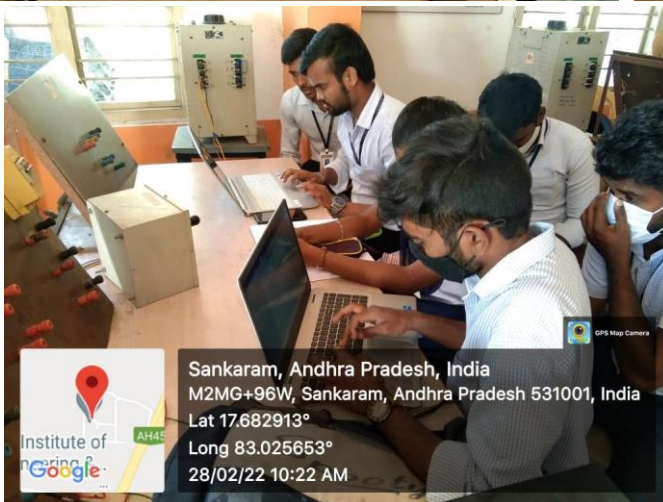
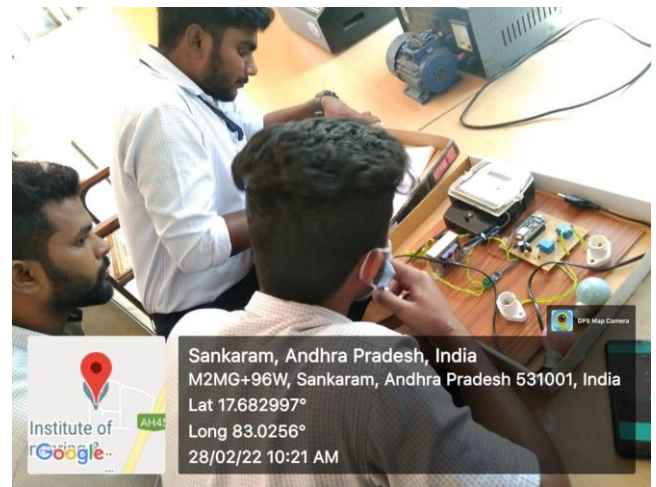


## Faculty using Power Point Presentation for Skilled Sessions



## Experiential & Project Based Learning with practical experimentation







**Student Participation in Employability Skill Sessions**

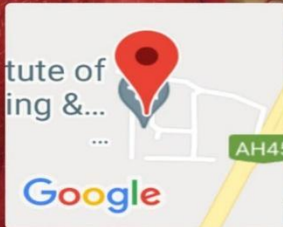
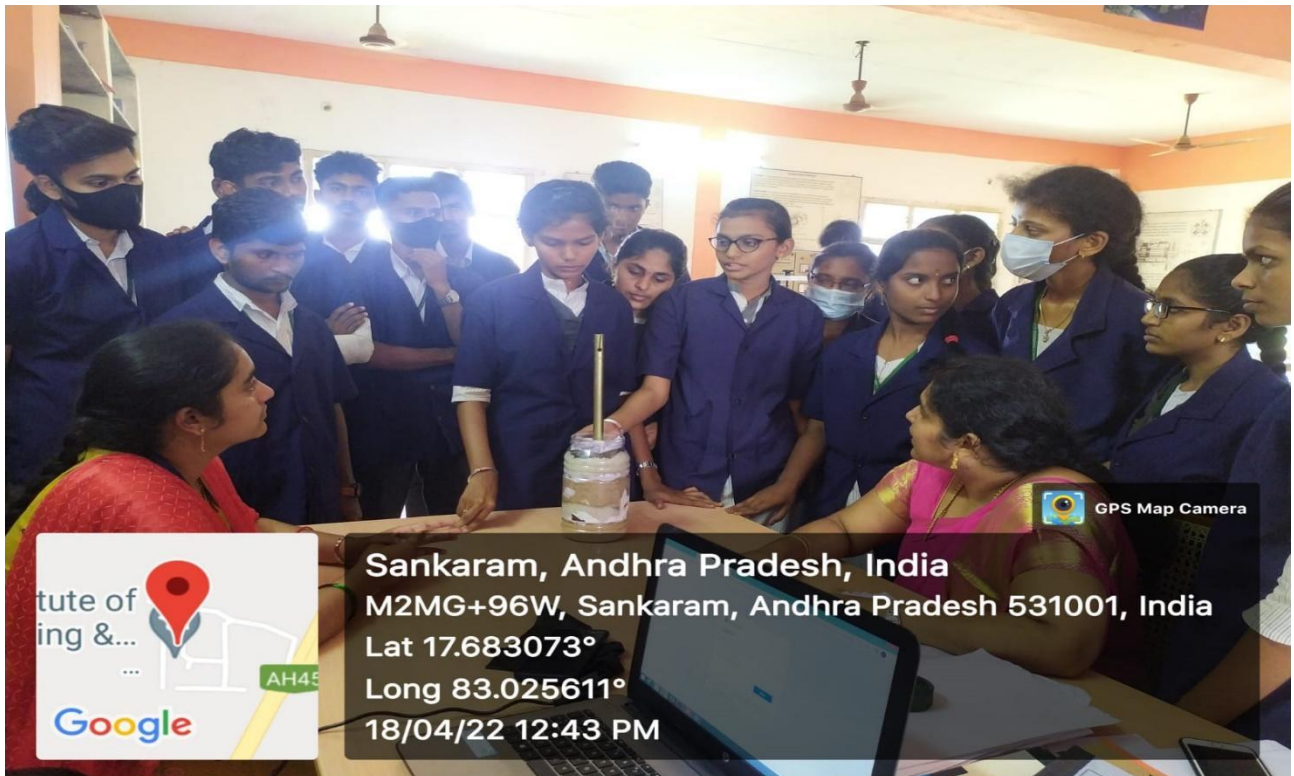




**Hands-on Training to students by faculty**



**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



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%
	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	Prestige	2018	1200W
	15	Mixer grinder	1	Mexicon	2019	750W
Lawn	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

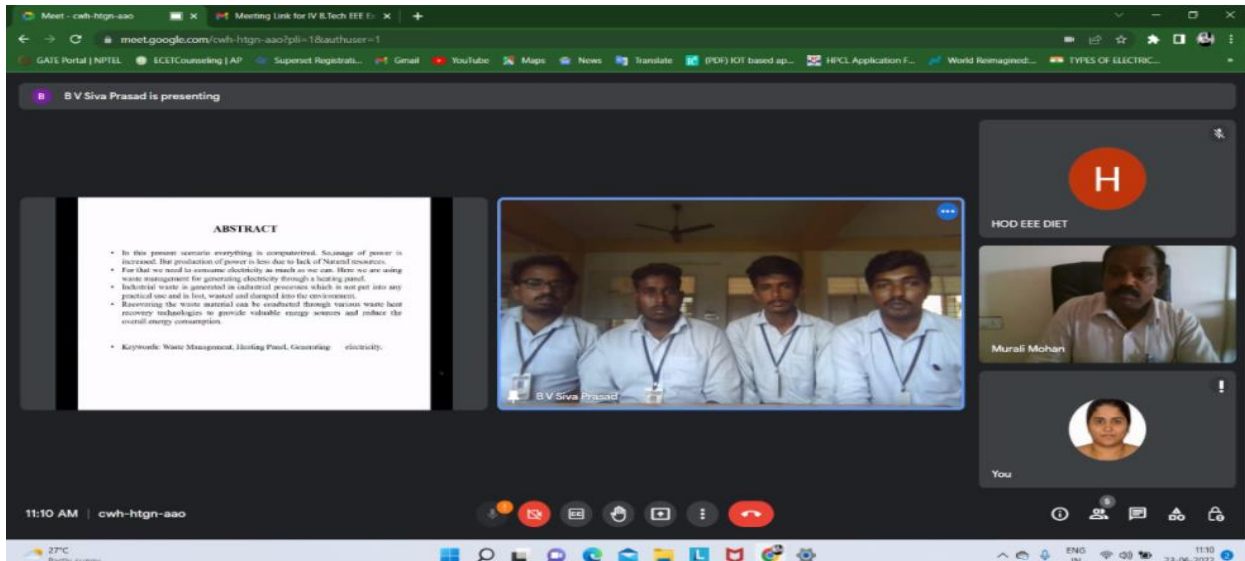
EASTERN POWER DISTRIBUTION COMPANY OF A.P. LTD  
PAYMENT RECEIPT  
( ORIGINAL )  
25-10-2021 11:48:00  
T: 13E86281143 RC: 13  
: 002 MUNAGAPAKA  
T: 20201, MUNAGAPAKA  
R NO: 20201 02687  
E: KIRRI, VENKATA NAGES  
AMT(10/21): 473.00  
AMT 0.00  
AMT 0.00  
AMT 0.00  
AMT 0.00  
AL AMT 473.00  
PAYMENT MODE: CASH  
THORISED 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  
APREARS: 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: 100604059  
EROCODE: 002 SROCODE: 2  
GROUP: CYCLE:  
DT: 06/11/2021 TM: 01:38  
SICNO: 26201 02087  
NAME: KIRRI, VENKATA NAGES  
ADDRESS: 20201 ADDR: MUNAGAP  
ADDRESS: S/O ADENAKATANA  
ADDRESS: MUNAGAPAKA  
CAT: 3 SUBCAT: 01 PH: 1  
LOAD: 1.00  
STRCODE:  
POLE NO:  
PRES: 10730 00 11/21 01  
PREV: 10569 00 10/21 01  
UNITS: 161 AVG: 161  
METER NO: 547037 CAP: 3A1109  
NAME:  
ENERGY CHARGE: 473.00

RECS KASIMKOTA  
PAYMENT RECEIPT  
( ORIGINAL )  
25-08-2021 11:30:42  
T: 13E86281011 RC: 13  
: 002 MUNAGAPAKA  
T: 20201, MUNAGAPAKA  
R NO: 20201 02687  
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



## 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.



5/21/22, 2:59 PM

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

Search for books, authors, or series. [Q] [?] [🛒]

Home Site Updates Profile Publish Library Dashboard Account Podcast FAQ Filtering

**Tasks awaiting your completion:**

- This book [requires modification](#) prior to inclusion in [Smashwords' premium catalog](#).
- Epubcheck validation **failed**. [Review epubcheck results](#).

**PEER (PROJECTS ON ELECTRICAL ENGINEERING RESEARCH)**  
By Department of EEE DIET

Price: Free!

[Remove from Library](#)  
[Send to Email](#)  
[Create Widget](#)

The Book series represents the innovative ideas of the students in electrical engineering research. The Book is a token of research contribution of students and faculty at the end of year. Creative ideas from the young minds executed under the guidance of faculty members motivates the youth to drive towards the research in this domain. [More](#)

Download: [epub](#) [mobi \(Kindle\)](#) [pdf](#) [more](#) [Online Reader](#)  
[original document](#)

**Manage Your Book**

Sold at Smashwords: 0  
Total downloads: 1  
[View Book Stats](#)  
[SEO Links](#)  
[Affiliate Linking](#)  
[Change Book Settings](#)

Download the full versions of this book

Download: [epub](#) [mobi \(Kindle\)](#) [pdf](#) [txt](#) [pds](#)  
[txt](#) [Online Reader](#) [original document](#)

Category: [Essay](#) » [Technology](#)  
Category: [Nonfiction](#)  
» [Education & Study Guides](#)  
» [Organizations & Institutions](#)

Published: May 21, 2022  
Words: 4,400  
Box Set: Yes  
Language: English  
ISBN: 9781005575649

Tags: [projects](#) [electrical engineering](#)

Like 0  
Share  
[Tweet](#)  
[Pin](#)

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



# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +91 9963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)



PEER -Edition 2022 Release on 20 May 2022



## 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 points, 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=vqqnrba)  
<https://classroom.google.com/c/NDc4MTc5MDY1MjAz?cjc=vqqnrba>



# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

---

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### **Department Best Practices- Teaching & Learning**

Department of Computer Science and 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.

The Department of CSE Always encourages Students to learn things by involving themselves in participative learning & Experimental learning for understanding reality of every subject. 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 the emphasis 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, some of advanced technical courses, Industrial visits, pictorial demonstration and many more activities.

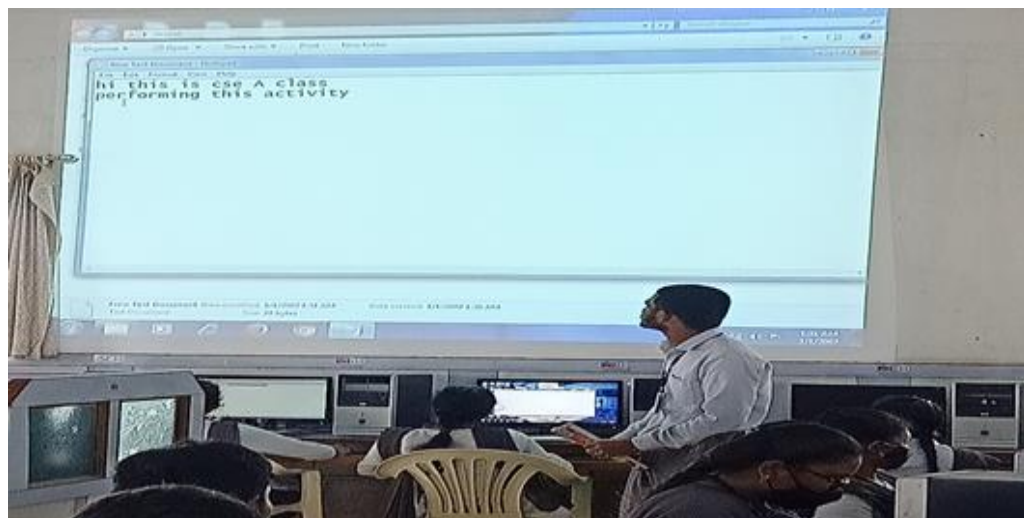
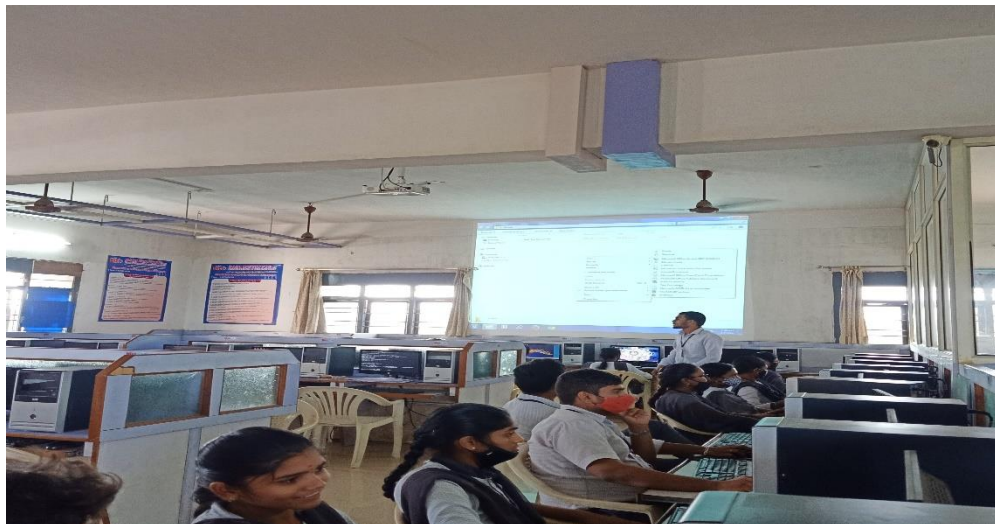
It was a clear observation that more than number of sessions conducted with the above-mentioned concepts, better were the results obtained every semester.

Some of the snapshots of these strategies employed by CSE Department are shared in this document:

## **Participatory & Experiential learning in Teaching and Evaluation methods 2017-18:**

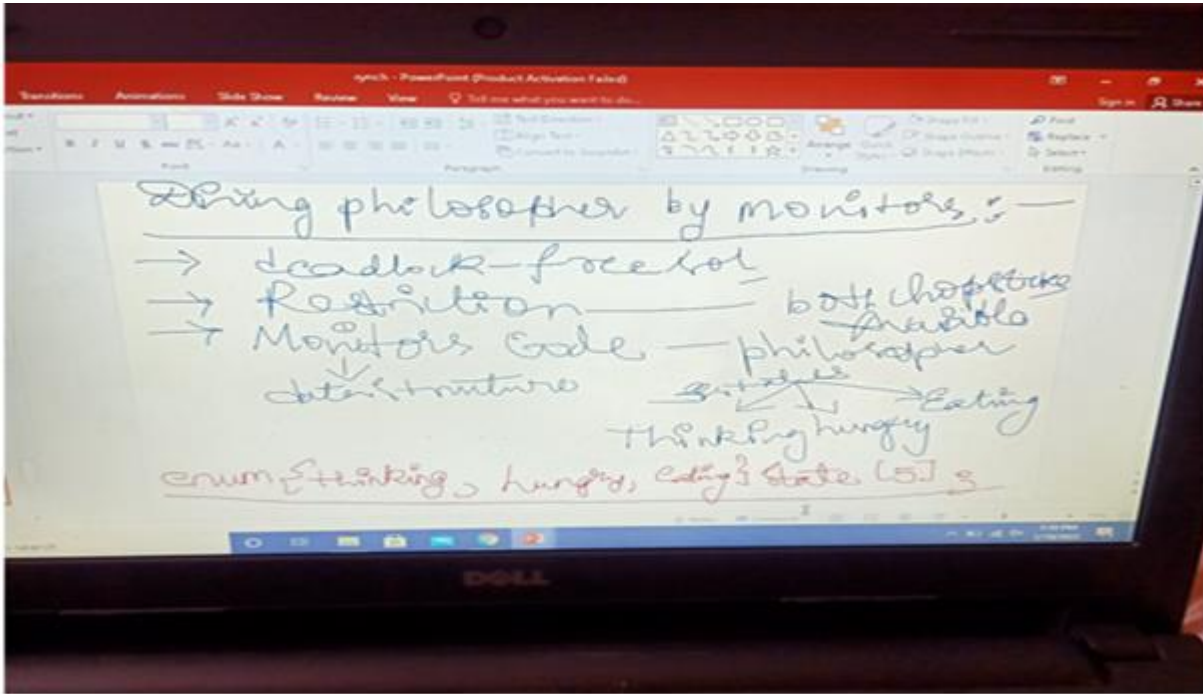
In this academic year, Most of the subjects dealt with experiential learning methods such as assignments, problem solving and PPTs apart from chalk & Talk. The department has taken initiative to enrich the teaching and learning in effective way. Awareness sessions conducted for the faculty to upgrade their skill set in teaching methodology.

### **Practice Based Learning by Students**





## Hands on Based Learning



## Modern Based Tools Usage



## 2017-18:

In this academic year, The Department show case continuous efforts to explore the hidden skills under experiential & Participatory learning in conduction of one week FDP “Data analytics with R”.

DIET organized One Week "Faculty Development Programme" on "Data Analytics with R" in association with Electronics & ICT Academy (DietY, Govt of India), NIT, Warangal, during 30th Oct to 4th Nov 2017. Prof. Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NIT, Warangal, was the Chief Guest, Shri Anup Kelkar, Director, Vyclean Solutions, Nagpur, was the Guest of Honour, for the Inaugural Function of the FDP conducted in Seminar Hall-1 (AC), DIET Campus, at 9:30 AM on 30th Oct 2017. Sri Dadi Ratnakar, Hon'ble Correspondent, Prof. Dr. K. Amarendra, Vice Principal, Prof. Dr. L. Prasanna Kumar, HoD, CSE & Coordinator, FDP, HoDs, Staff and 50+ Participants from various Institutes participated in the Inaugural Function.





# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

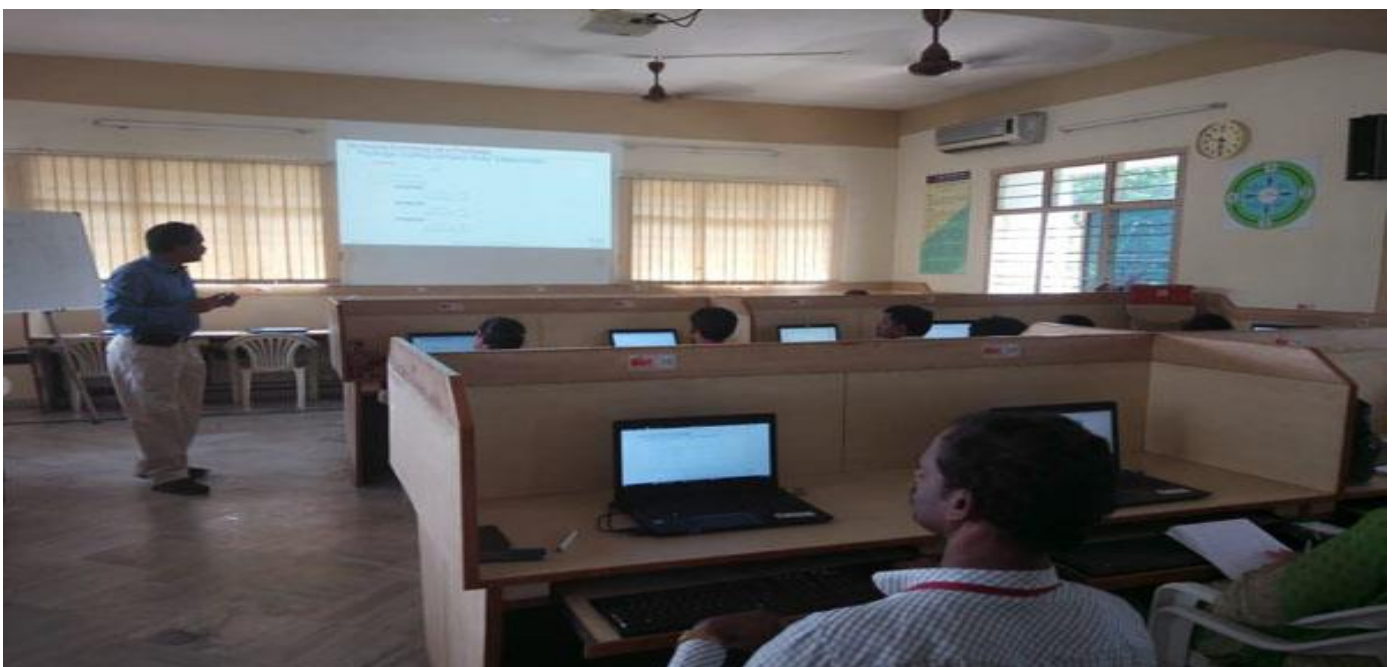
---



## **2018-19:**

In this academic year, as an initiative towards teaching and research innovation, faculties are encouraged for one week FDP on “Machine Learning with Python” as to upgrade faculties knowledge on New Technologies.

The Department of CSE, in association with NIT, Warangal, is organized a One Week FDP on "Machine Learning with Python" during 1st to 3rd Jun & 8th to 10th Jun 2018. Prof. Dr. K. Ramji, Hon'ble Vice Chancellor, Dr. B.R. Ambedkar University, Srikakulam, is the Chief Guest, Dr. P. Sreedevi, Dept of BS & HSS, JNTU, Vizianagaram, is the Guest of Honour, Mr. Anup Kelkar, Vyclean Solutions, Nagpur, is the Resource Person for the 1st Day Programme scheduled on 1st Jun 2018 in Seminar Hall-1(AC), at Dadi Institute of Engineering & Technology (DIET) Sri Dadi Ratnakar, Hon'ble Correspondent, Prof. Dr. Ch. Prabhakara Rao, Principal I/C, Prof. Dr. K.S. Eswara Rao, Vice Principal, Prof. Dr. L. Prasanna Kumar, HoD, CSE, Staff Members and Students participated in the Inaugural Function.





## **2019-20:**

In this academic year, The Department of Computer science conducted the a 6-Day FIP on "Problem Solving & Programming in Python" from 4th to 8th November 2019. The Chief Guest - Prof. P. Srinivasa Rao, Principal, College of Engineering, Andhra University addressing in the inaugural of the FIP.





# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

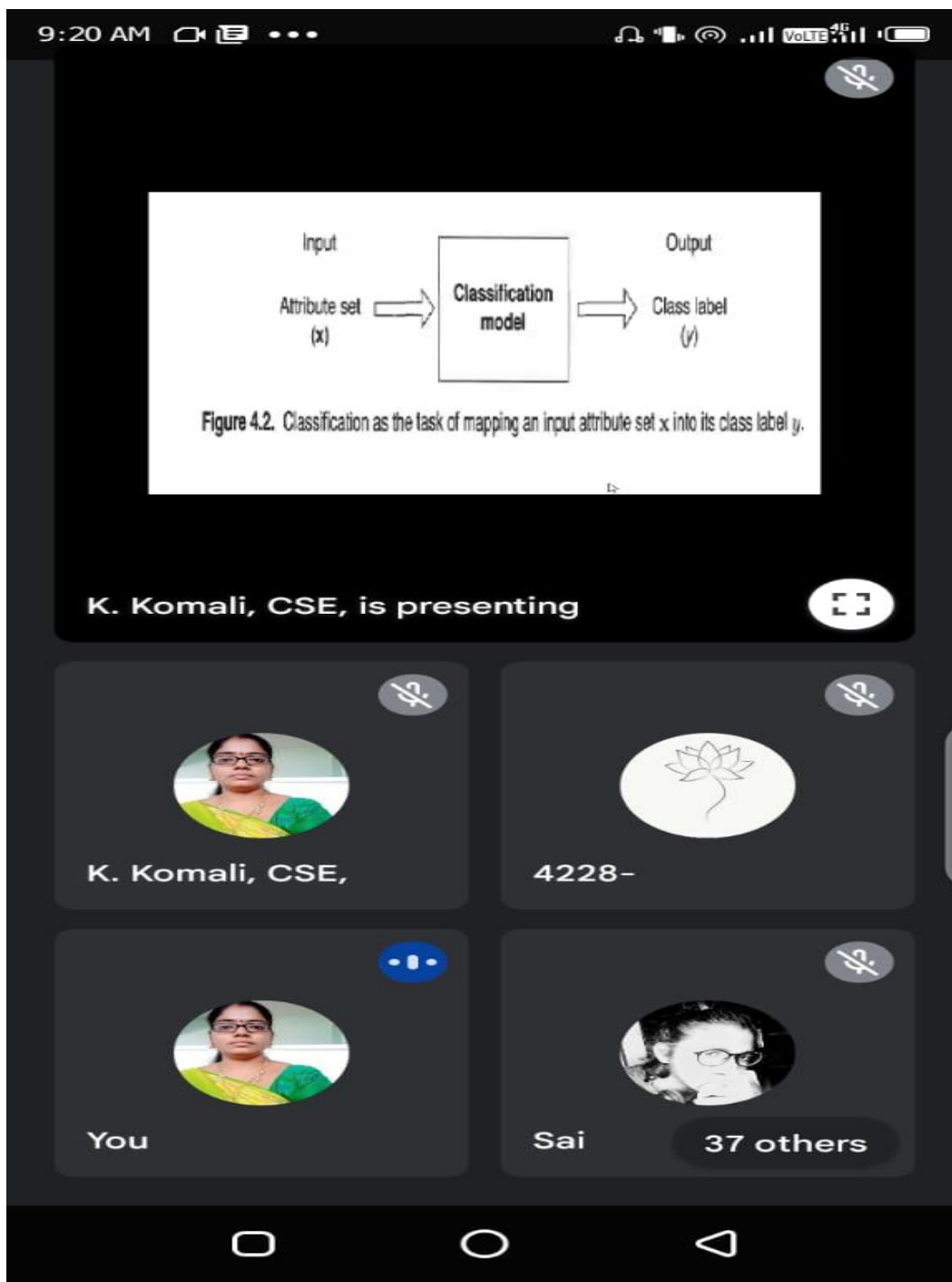
Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)



**2020-21:**

**During COVID Phase**

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





# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

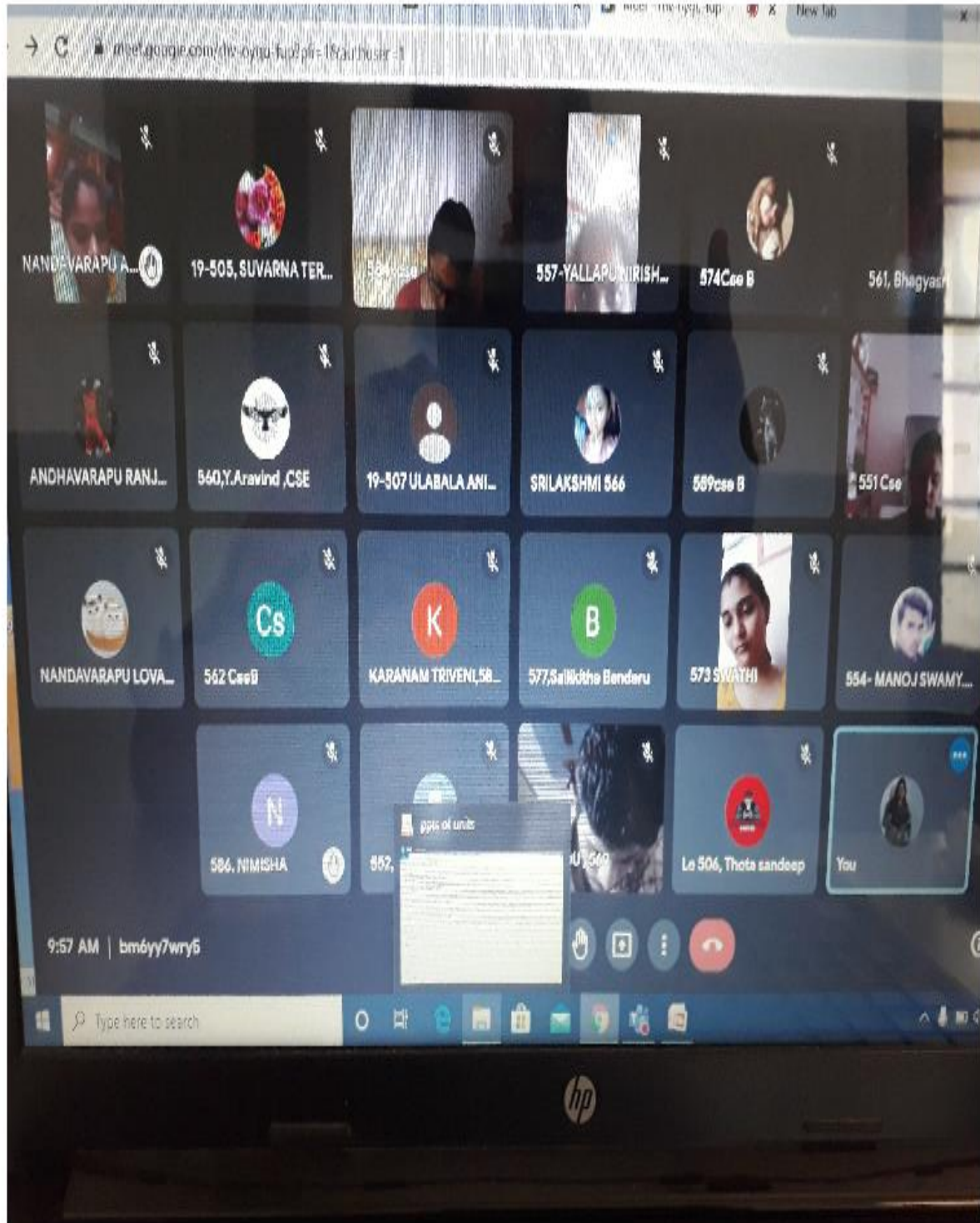
(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)







# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

**2021-22**

## **Industrial Visits & Internships:**

### **Exposure and Field Visit to NSTL-**





# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

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

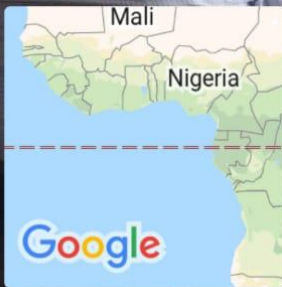
NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

## Merit Student Sessions



Sankaram, Andhra Pradesh, India

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

Lat 17.68263°

Long 83.025701°

23/03/22 09:59 AM



# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

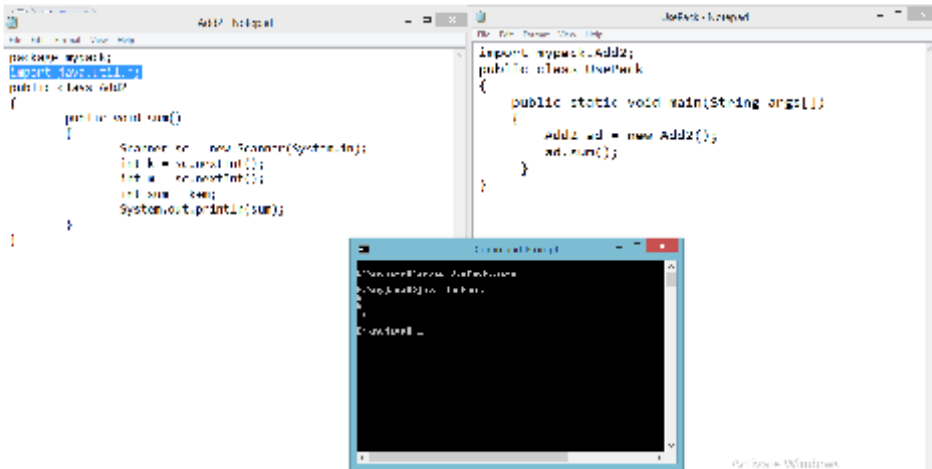
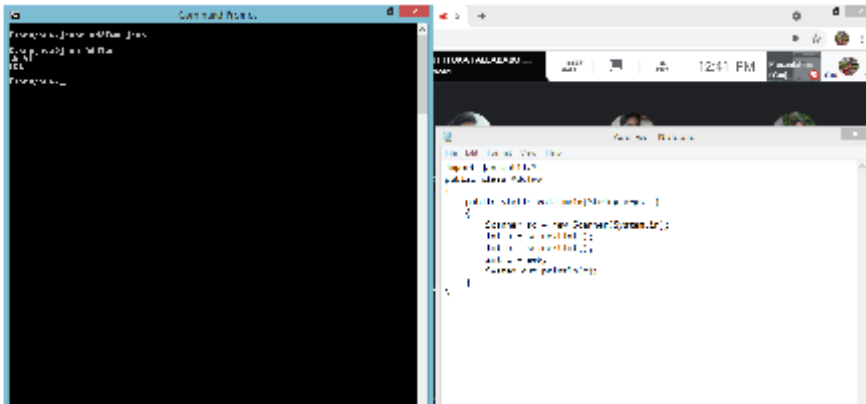
(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)





# DADIINSTITUTE OF ENGINEERING & TECHNOLOGY

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

NAAC Accredited Institute and Inclusion under Section 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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

Mobile: +919963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

---

## 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 STL P/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: 3M

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 examination 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