



PRATHYUSHA ENGINEERING COLLEGE

CRITERIA-2

Teaching - Learning and Evaluation

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

**ELECTRICAL & ELECTRONICS
ENGINEERING**

2022-23



PRATHYUSHA ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Student Centric Methods

Experiential learning:

.S.No	Academic year	No of Mini Projects	No of students learned experientially
1	2022-23	03	05

Participative learning:

.S.No	Academic year	No of students participation in clubs (Quiz, Seminar, workshop, Industry Expert Interaction, Training and internal Contest)		No of students participation in seminar/Guest lecture(GL)		No of students participation in Industrial Visit (IV)		No of students participation in other organization	
		No of clubs	No of Events	No of Seminar /GL	No of students	No of IV	No of students	No of Events	No of students
1	2022-23	01	12	07	27	05	27	09	07

HoD/EEE



PRATHYUSHA ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR : 2022-2023

MINIPROJECT LIST

S.No.	Batch	Register Number	Student Name	Title of Miniproject	Name of the Guide
1	1	111420105002	GURUDEV K	Design of Advanced Real Time Weather Monitoring System Using RASPBERRY PI PICO	Mr.K.Somasekhar
2		111420105004	PRABHU A		
3	2	111420105001	DIVAHARAN C	Design of Real Time Prediction circuit for Battery Operation	Mr.K.Anand
4		111420105501	DEVENDRA THILAK K		
5	3	111419105005	KAVIARASAN V	Underground Cable Fault Distance Locator	Ms.S.Shobana

HoD/EEE



PRATHYUSHA ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

GREEN & CLEAN ENERGY CLUB - EVENTS ORGANISED

PRATHYUSHA ENGINEERING COLLEGE							
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING							
ACADEMIC YEAR :2022-23							
S.NO.	DATE	NATURE OF ACTIVITY	TOPIC/PLACE	RESOURCE PERSON	ORGANISATION & DESIGNATION	BENEFICIARIES	TIME
1	27-08-2022	Offline Seminar	Solar energy for all - A pathway to sustainability	Dr.K.Sudhakar	Sr.Lecturer, Department of Mechanical and Automotive Engineering Technology, University of Malaysia, Pahang	II,III and IV year students	11:00 AM – 12:00 PM
2	12.09.2022	International Online Seminar	“Smart Grids and Distributed Energy Systems”	Prof. Ravi Samikannu	Associate Professor, Department of Electrical Computer and Telecommunications Engineering. Organization: Botswana International University of science & Technology	II,III and IV year students	10:00 AM – 12:00 PM
3	16-09-2022	Industrial Visit	N/A	N/A	“Kalaivani Electricals, Thirumudivakkam”	II,III and IV year students	10:00 AM – 12:00 PM
4	27.09.2022	Workshop	Robotics and Industrial Automation	Er. Rajesh Ganesan, M.E	Research Head - Mentor, LETFIX Technologies, Chennai	II,III and IV year students	10:00 AM – 12:00 PM
5	08-11-2022	National Level Technical Symposium	PEC	Mr. D.Chinnappan	Global Head - HR, Elite Elevators	PEC and Other College Students	08:00 AM - 03:00 PM
6	09-11-2022	Industrial Visit	N/A	N/A	Gmmco CAT, Erukanchery	II,III and IV year students	09:00 AM – 11:30 AM
7	11-11-2022	Online Webinar	What is Next ?”	Mr.Selvakumar Subbarayan	Manager, Caggemini Canada Inc.	II,III and IV year students	08:30 A.M - 10:30 AM
8	25-11-2022	Online Webinar	Power System Analytical Tools - An introductory session	Er. B.Saravanan	CEO, Minaatral Power Systems	I,II,III and IV year students	06:00 PM - 07:00 PM
9	14-02-2023	Seminar	Internet of Things for smart and sustainable future	Dr. P. Sriramalakshmi	Associate Professor/ EEE, VIT, Chennai Campus	9361377592	10:00 AM – 12:00 PM
10	07.03.2023	Industrial Visit	N/A	N/A	MINAATRAL POWER SYSTEMS, THIRUVERKADU	II,III and IV year students	10:00 AM – 03:00 PM
11	11.04.2023	Industrial Visit	N/A	N/A	V EQUAL IR, MOGAPPAIR	II,III and IV year students	10:00 AM – 03:00 PM
12	26.06.2023	Industrial Visit	N/A	N/A	Pro Power Technologies, Patravakkam, Chennai	II,III and IV year students	10:00 AM – 03:00 PM

HoD/EEE

NATURE OF THE EVENT: SEMINAR

DEPARTMENT: EEE

CLASS (YEAR/SEC) : II/III/IV

EVENT NAME: Solar Energy for all – Pathway to sustainability

INVITED SPEAKER : Dr.K.Sudhakar Sr.Lecturer, Department of Mechanical and Automotive Engineering Technology. University of Malaysia, Pahang

DATE : 27/08/ 2022

ASSOCIATED CLUB : Green & Clean Energy Club

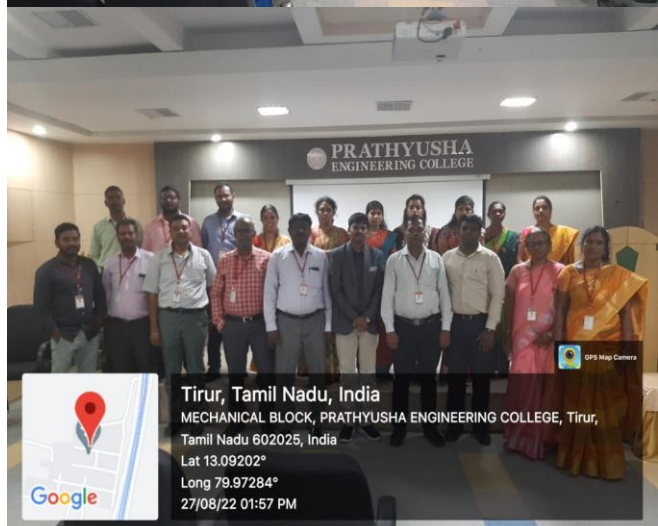
REPORT

The session started with Welcome speech given by Dr.Jayaseelan, HoD/Mech, followed by the guest introduction by Ms.K.M.Vijayalakshmi.

The session was taken over by the chief guest and he started his lecture with introduction about solar energy and why solar energy apart from all renewable sources. He has given a new perspective for the students regarding various fields to do research and projects.

The students participated actively and the session ended with Q&A. The speaker answered the queries with full interest.The session ended with vote of thanks.

EVENT PHOTOGRAPHS



NATURE OF THE EVENT: INTERNATIONAL SEMINAR

DEPARTMENT: EEE

CLASS (YEAR/SEC) : II/III/IV

EVENT NAME: Smart Grids and Distributed Energy Systems

INVITED SPEAKER : Dr. Ravi Samikannu, Associate Professor, Department of Electrical Computer and Telecommunications Engineering, Botswana International University of science & Technology

DATE : 12/09/ 2022

ASSOCIATED CLUB : Green & Clean Energy Club

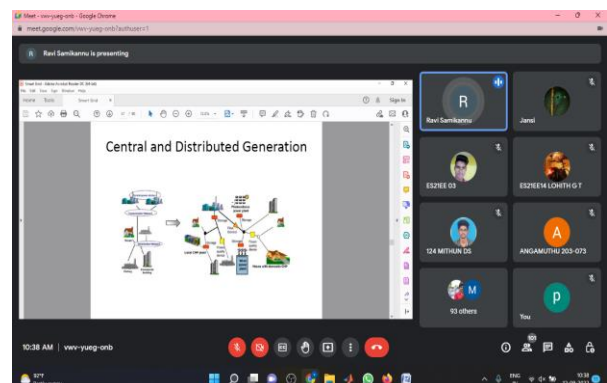
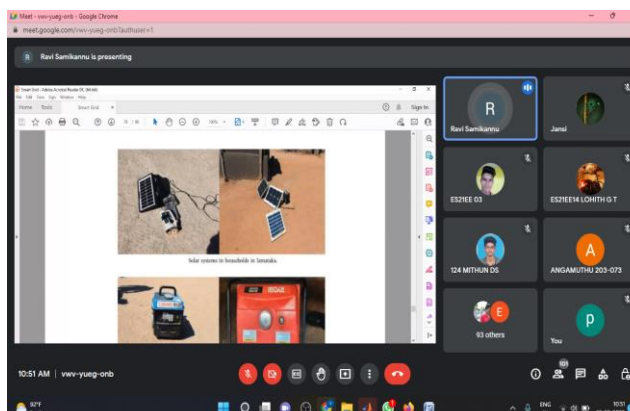
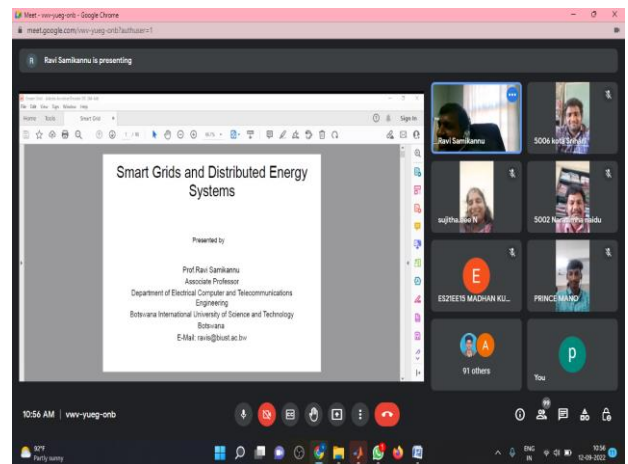
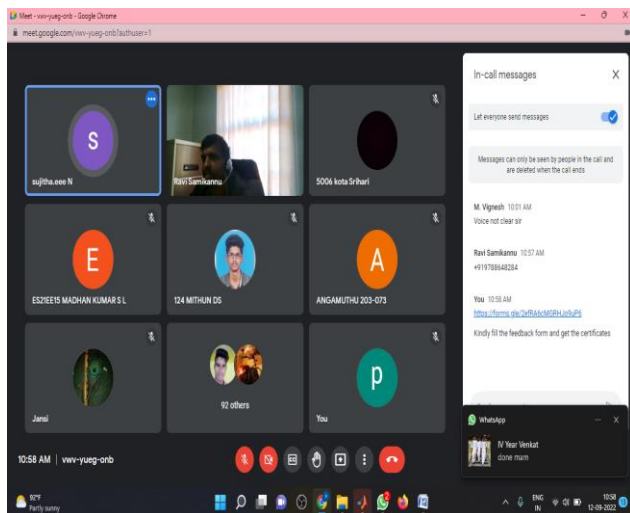
REPORT

The session started with Welcome speech given by Dr. K. Sathiyasekar, followed by the guest introduction by Ms.S.Shobana.

The session was taken over by the chief guest and he started his lecture with introduction about smart Grids and distributed energy systems. He has given a new perspective for the students regarding various fields to do research and projects. Since its an international seminar students from outside the college also participated.

The students participated actively and the session ended with Q&A. The speaker answered the queries with full interest. The session ended with vote of thanks.

EVENT PHOTOGRAPHS



NATURE OF THE EVENT: Industrial Visit

DEPARTMENT: EEE

CLASS (YEAR/SEC) : II/III/IV

PLACE : Kalaivani Electricals, Thirumudivakkam

DATE : 16-09-2022

REPORT

A group of students and 2 teachers have gone for the industrial visit to kalaivani electricals, Thirumudivakkam. All the students have arrived the college at 8:00 am and they have made to settled in their classrooms. After taking the regular attendance and giving general instructions to the students by the teachers, the bus started from college at 9:30 am after issuing the gate pass. The bus has reached the industry at 10:15 am. We were welcomed by Mr. Muthu manager of kalavani electrical and we have been provided with a cup of tea. After finishing the tea Mr. Muthu gave a brief introduction about their industry and he also gave some ideas about the blooming sectors in core industries. After finishing his introduction he carried over to one of his Engineer Mr.Gurunathan Gnadhi and he took us to manufacturing sectors of the CT and PT transformers of their industries. There we have explored so many things about the machines and the materials they use for their manufacturing of transformers.

Instrument Transformer types and its wide area of applications also discussed. After visiting all these manufacturing sectors we have also discussed with them about the upcoming government exams and job opportunities. Overall we have gained some knowledge about the industries and we have got some awareness about the job openings and we got to knew about some ebullient field knowledge. After finishing our lunch at 1:30 pm bus started and we have reached the college by around 2:20 pm. After reaching the college the students have directed towards their respective class hours.

EVENT PHOTOGRAPH



NATURE OF THE EVENT: Workshop

DEPARTMENT: EEE

CLASS (YEAR/SEC) : II/III/IV

EVENT NAME: "Robotics And Industrial Automation"

INVITED SPEAKER : Mr. G.Rajesh, Director, LETFIX Technologies

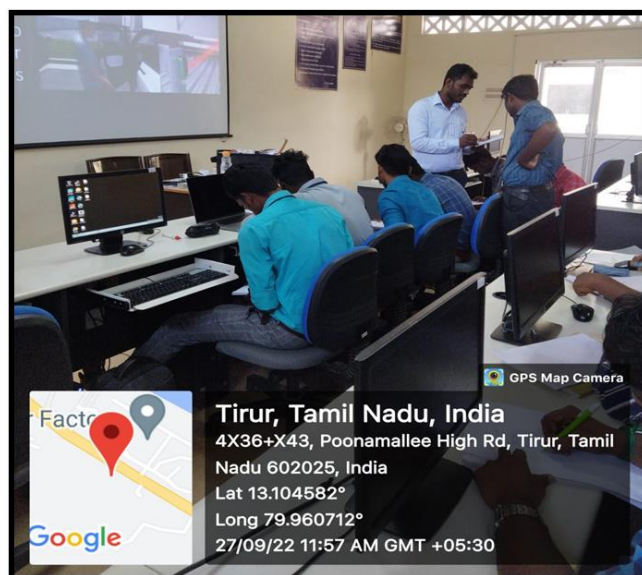
DATE : 27.09.2022

ASSOCIATED CLUB : Green & Clean Energy Club

REPORT

The session started with Welcome speech given by Ms. K. M. Vijalakshmi, Assistant Professor, EEE and followed by the guest introduction. The session was taken over by the guest Mr. G.Rajesh and he started his lecture with introduction about some basic ideas and components for Robotics & Automation. He has given a new perspective for the students regarding various components and their implementation to do research and projects. He has also brought some common sensors, relays and circuit breakers to give a brief idea about it. The students were interactive and they participated actively. The lecture ended with Q&A. The speaker answered the queries with full interest. After the Q&A session a small circuit designing activity based on the lecture were given to the students and after verifying their circuit, they were made to implement the circuit connection with proximity sensor and relay. Finally, the session ended with vote of thanks.

EVENT PHOTOGRAPHS



NATURE OF THE EVENT: Industrial Visit

DEPARTMENT: EEE

CLASS (YEAR/SEC) : I/ II/III/IV

PLACE : GMMCO Limited, Erukanchery

DATE : 09.11.2022

REPORT

The session started with Welcome speech given by Chief Engineer and he guided us with their industries work after instructing us about safety precaution. Then he took us to the “Quality Assurance Engineer” who started explaining about various works done at their industry. He explained about the diesel generators, alternators, engines and about their various testing, inspection, dismantle and assembling works. Then he gave us an idea on how to get interns at various industries including their industry. After that a “Safety Engineer” gave us a brief note on safety precautions, hazards of the industries and how to avoid accidents in the industries. Then, we ended our industrial visit and headed back to the college.

EVENT PHOTOGRAPH



NATURE OF THE EVENT: Webinar

DEPARTMENT: EEE

CLASS (YEAR/SEC) :I/ II/III/IV

EVENT NAME: What is Next?"

INVITED SPEAKER : Mr. Selvakumar Subbarayan, Manager, Capgemini, Canada Inc

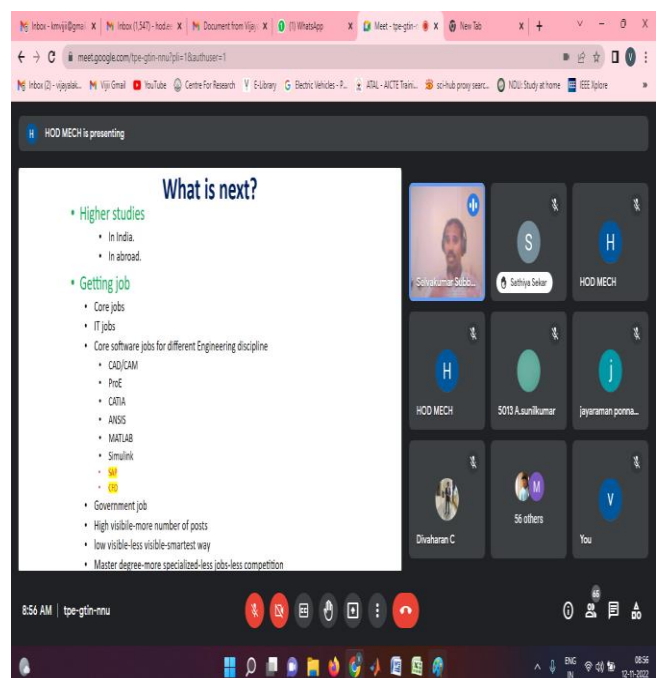
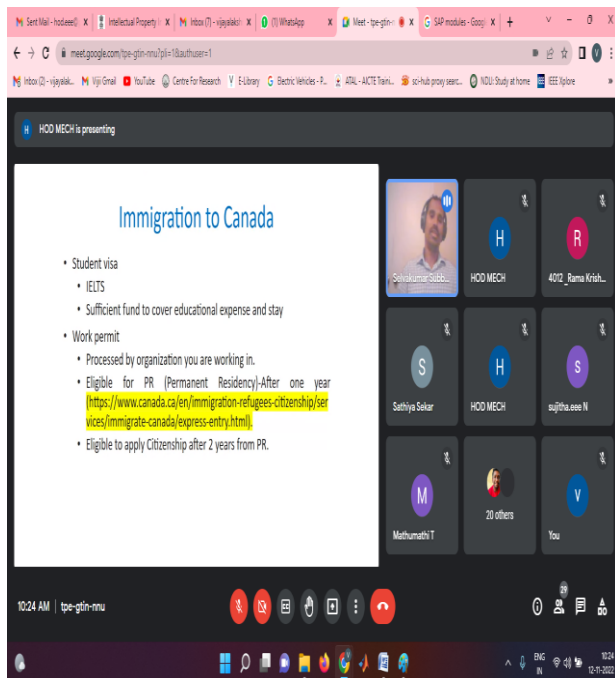
DATE : 11.11.2022

ASSOCIATED CLUB : Green & Clean Energy Club

REPORT

- Higher studies
 - In India.
 - In abroad.
- Getting job
 - Core jobs
 - IT jobs
 - Core software jobs for different Engineering discipline
 - Government job
 - High visible-more number of posts
 - low visible-less visible-smartest way
 - Master degree-more specialized-less jobs-less competition

EVENT PHOTOGRAPHS



NATURE OF THE EVENT: Webinar

DEPARTMENT: EEE

CLASS (YEAR/SEC) : II/III/IV

EVENT NAME: Power System Analytical Tools – An Introductory Session

INVITED SPEAKER : Er. B.Saravanan, CEO, Minaatral Power Systems, Chennai.

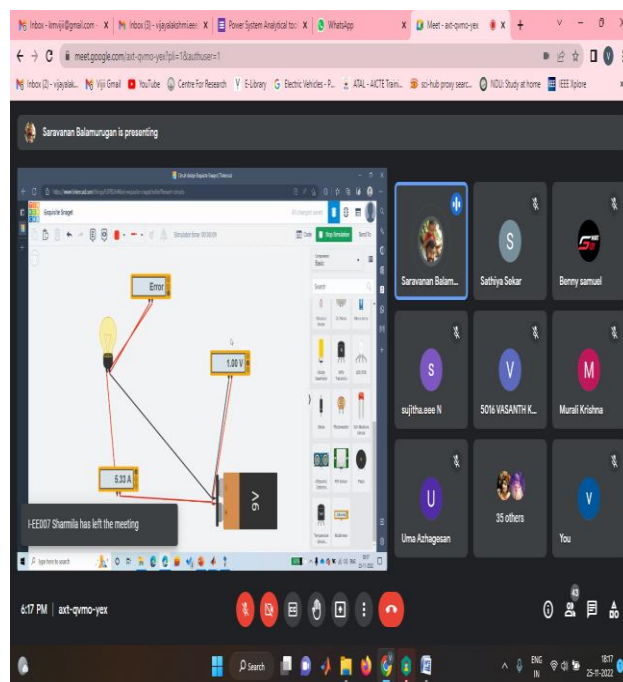
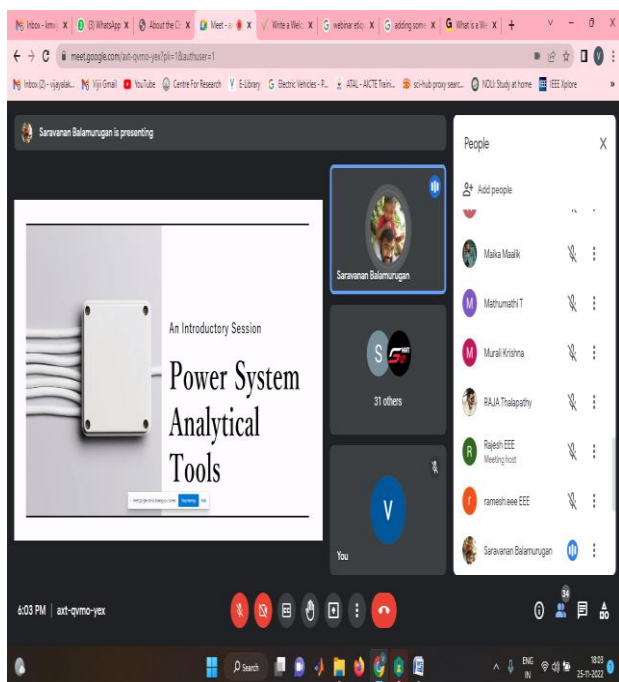
DATE : 25.11.2022

ASSOCIATED CLUB : Green & Clean Energy Club

REPORT

The session was taken over by the chief guest and he started his lecture with introduction about different analytical tools for power systems. He has given a new perspective for the students regarding various fields to do research and projects. He has given an introductory session for the tools like Tinker CAD, MATLAB, ETAP, PSCAD, MATH STUFF, etc., He gave demo in Tinker CAD software. It was very beneficial to the students. He also told about ALTAIR FLUX, COSMOL, RTDS which will be helpful for the students in Mini Project and Main Project. The ETAP software is used for Electrical Transient Analyzer Program – Design your system, and run different analysis on your system, based on proven methods. – e.g., Load Flow, Short Circuit Studies, Transient Studies. PSCAD software is used for EMT (Electromagnetic Transient) Simulations – Effect of switching surges and lightning on the power systems – Study Corona Loss, Radio and EM Interference. Altair Flux – Electromagnetic Finite Element Analysis tool – Based on the equipment geometry and design. The students participated actively and the session ended with Q&A. The speaker answered the queries with full interest. The session ended with vote of thanks.

EVENT PHOTOGRAPHS

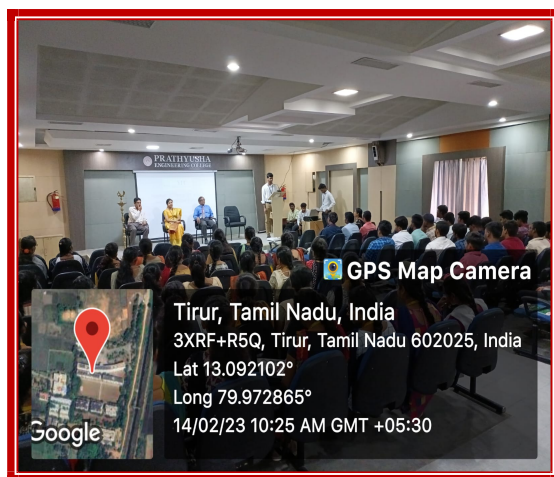


NATURE OF THE EVENT: Seminar**DEPARTMENT: EEE****CLASS (YEAR/SEC) : II/III/IV****EVENT NAME: IoT for smart and sustainable future****INVITED SPEAKER : Dr. P. Sriramalakshmi, Associate Professor, VIT Chennai campus****DATE : 14-02-2023****ASSOCIATED CLUB : Green & Clean Energy Club****REPORT:**

The Seminar started with a Prayer Song followed by Guest introduction by Devindra Tilak, III year EEE student. Dr. P. Sriramalakshmi has given the seminar on the topic “IOT for smart and sustainable future”. She has explained the topics in detail and she also has given some ideas for the projects based on IOT. At the end of seminar, students were interacted and had their doubt clarification session.

OUTCOMES:

- Students felt that the event was useful and motivative.
- Questions asked in the session kindled the subject knowledge among the students.

NO. OF STUDENTS PARTICIPATED: 75(EEE & ECE)**NO. OF STAFFS (TEACHING/ NON-TEACHING) PARTICIPATED: 10****EVENT PHOTOGRAPHS:**

**NATURE OF THE
EVENT** : INDUSTRIAL
VISIT

COMPANY NAME : MINAATRAL POWER
SYSTEMS

DEPARTMENT : EEE

PLACE : THIRUVERKADU

DATE : 07.03.2023

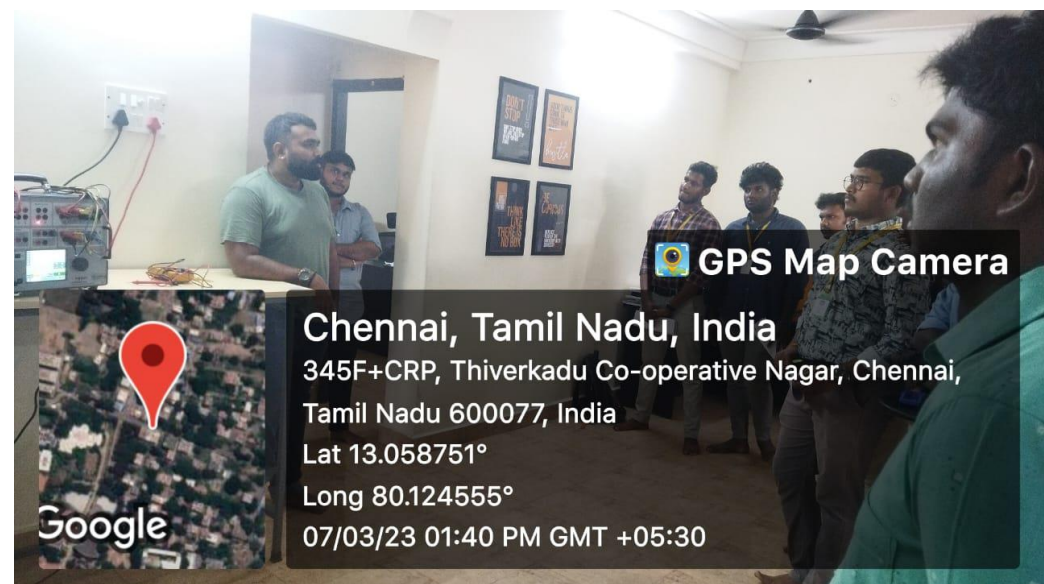
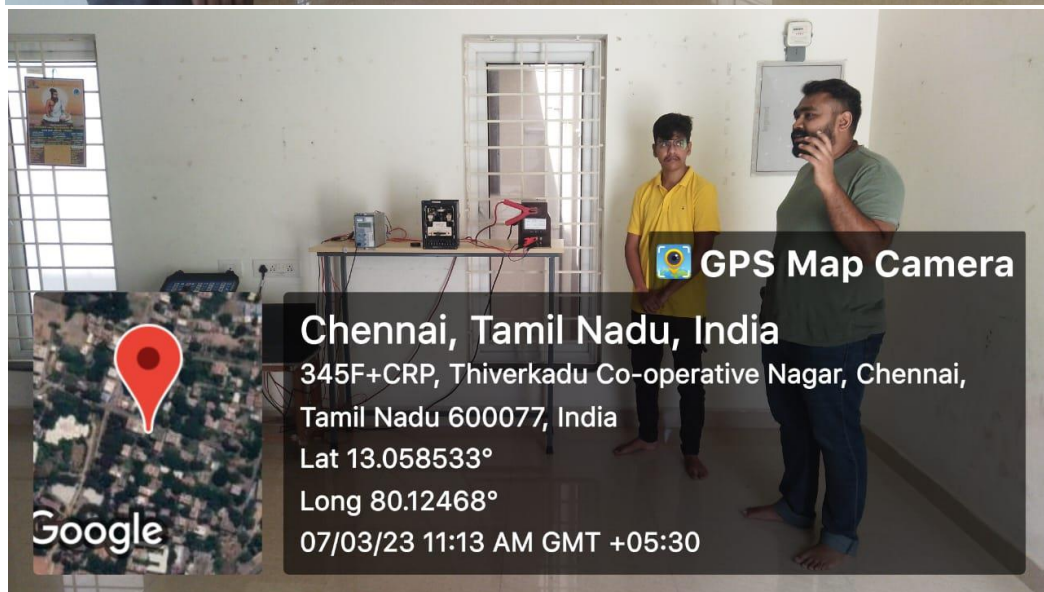
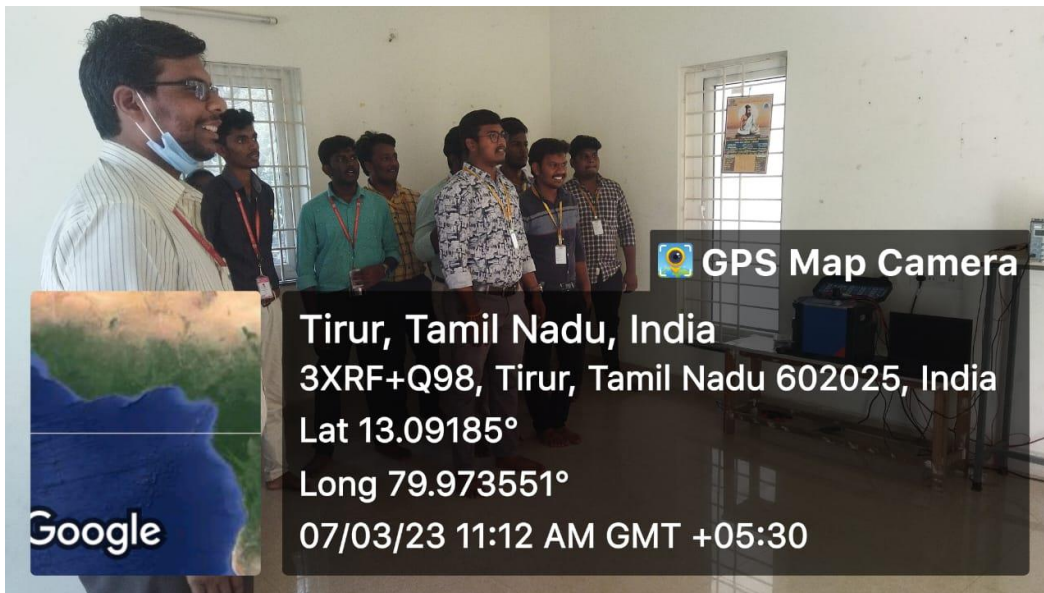
REPORT:

The Industrial visit started with the brief introduction about the power systems by Mr. Saravanan Balamurugan CEO of Minaatral power systems and after giving a brief introduction, he carried over to some of his fellow engineers. His engineers have given some idea about their job roles and the showed a working demo for the testing of the current transformers, relays and circuit breakers. They have also taught the students about the power system design through the E-Tap software and they have shown some analysis. The students asked their doubts about the power systems and their doubts were clarified.

OUTCOMES:

- Students felt that the industrial visit was useful and helpful.
- The Demo session helped the student to understand the about the power equipment's testing and designing.

EVENT PHOTOGRAPHS:



**NATURE OF THE
EVENT** : INDUSTRIAL
VISIT

COMPANY NAME : V EQUAL IR

DEPARTMENT : EEE

PLACE : MOGAPPAIR

DATE : 11.04.2023

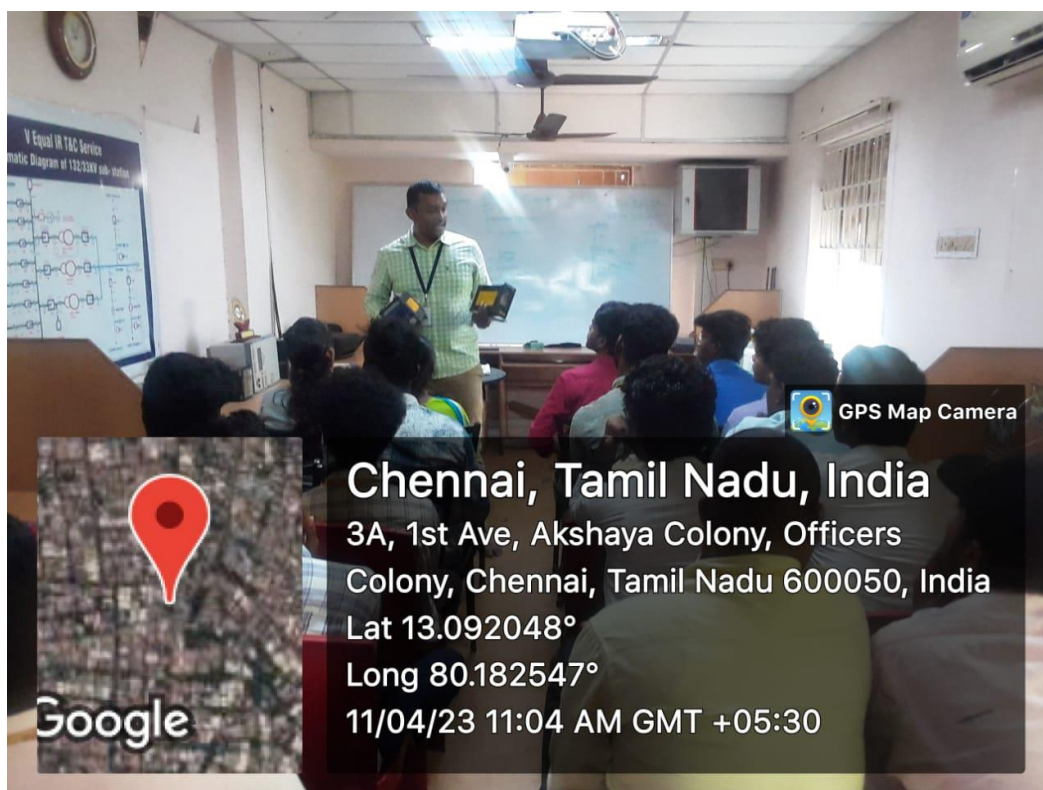
REPORT:

The Industrial visit started with the brief introduction about the power systems by a staff of V equal IR T&C services and after giving a brief introduction, he carried over to some of his fellow engineers. His engineers have given some idea about their job roles and the showed various equipment for the testing of the relays and circuit brakers. They have also taught the students about the power system design through the E-Tap software and they have shown some analysis. They have also given some ideas about the government and the private sectors in the power sector field. The students asked their doubts about the power systems and their doubts were clarified.

OUTCOMES:

- Students felt that the industrial visit was useful and helpful.
- The Demo session helped the student to understand the about the power equipment's testing and designing.

EVENT PHOTOGRAPHS:



NATURE OF THE EVENT: Industrial Visit

DEPARTMENT: EEE

CLASS (YEAR/SEC) : I

PLACE : Pro Power Technologies, Pattravakkam, Chennai.

DATE : 26.06.2023

REPORT

Pro power Technologies are engaged in the business of providing electrical system design, telecommunication services Computer network and cable system work Design and installation of the system Solar of communication and include the design and construction of the server room. Our work also includes the improvement of electrical systems, electrical cabinets, uninterruptible power supplies, replacement batteries, accurate air conditioning systems, leak detection systems, fire extinguishing systems and DCIM inspection systems. Solutions include,
Design DC Power and Solar power for Telecommunication
Design Data Center for small business
Design Electrical Power Optimization

EVENT PHOTOGRAPH



PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR:2022-23
STUDENT EVENTS PARTICIPATION

S.No.	Name of the Students	Date of Events	Name of the Event	Title	Venue	No of days
1	C. Divaharan, K. Gurudev, A. Prabhu	21.10.2022	Paper Presentation	Sustainable Storage Godown Monitoring System using IoT with Renewable	GRT Institute of Engineering and Technology	1
2	Benny Samuel S	28.01.2023	Shaastra 2023, Technical fest of IIT Madras	HACK-CIDENTS	IIT Madras	1
3	Benny Samuel S	28.01.2023	Shaastra 2023, Technical fest of IIT Madras	Design Challenge	IIT Madras	1
4	Benny Samuel S	6.2.2023	E-Summit 2023	UI/UX Hachathon	Entrepreneurship Cell IT, Patna	1
5	Benny Samuel S	12.2.202 3	Training	MATLAB Onramp	MATHWORKS	1
6	Benny Samuel S	2023	Quiz	Maruti Suzuki XCELerate	Maruti Suzuki India Limited	1
7	C. Divaharan	16.2.2023 & 17.2.202	Paper Presentation	Global Tech Summit 2023	Visakhapatnam	2
8	Kaviarasan V.	3.4.2023	OMICS '23	Ideathon	Sri Venkateswara College of Engineering	1

S.No.	Name of the Students	Date of Events	Name of the Event	Title	Venue	No of days
9	Gurudev K.	3.4.2023	OMICS '23	Ideathon	Sri Venkateswara College of Engineering	1
10	A.Sunilkumar, Suresh Kumar R., Sriram R.	28.4.2023	NCIEM-2023 Conference	Dual Axis Solar Tracker with Disturbance Detector	GRT Institute of Engineering and Technology	1

HOD/EEE



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11th NATIONAL LEVEL TECHNICAL SYMPOSIUM GRT TEXPO '22

21st October 2022

CERTIFICATE OF APPRECIATION

This is to certify that Mr/Mrs. C. Divaharan, K. Gurudev, A. Prabhu... Research Scholar/
UG/PG Student of Prathyusha Engineering College... has successfully presented/participated a
paper titled Sustainable Storage Godown Monitoring System using IoT with Renewable
in the 11th National Level Technical Symposium, held on 21st October 2022 and has been
awarded.....prize.


Principal


Dean

HACK-CIDENTS

a CSR Project funded by
Renault Nissan Technology & Business Centre India

CERTIFICATE OF PARTICIPATION

this certificate is awarded to

S. Benny Samuel

FOR PARTICIPATING IN THE EVENT "HACK-CIDENTS" ON 28/01/2023.



Dr. Gitakrishnan Ramadurai
Professor,
Department of Civil Engineering



CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS PROUDLY PRESENTED TO

Mr/Ms Benny Samuel

for participating in

Design Challenge

at Shaastra 2023, IIT Madras.

Baibhavi

BAIBHABI PATNAIK
CO-CURRICULAR AFFAIRS SECRETARY

A. Ratna Kumar

RATNA KUMAR ANNABATTULA
CO-CURRICULAR ADVISOR



E - CELL
IIT PATNA

Certificate OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Benny Samuel S

E - SUMMIT | VIVIANS OF VISION

For participating in the **UI/UX Hackathon** organised under
E-Summit 2023 by **Entrepreneurship Cell IT Patna**

DR ANOOP KUMAR GUPTA
PIC, ECELL IITP

YASH GAUTAM
OVERALL COORDINATOR



Progress Report

Name: Benny Samuel S
Course: MATLAB Onramp
Progress: **100%** complete (as of 12 February 2023)

Chapters

- | | |
|---|-------------------------------|
| 1. Course Overview 100% | 12. Programming 100% |
| 2. Commands 100% | 13. Final Project 100% |
| 3. MATLAB Desktop and Editor 100% | 14. Conclusion 100% |
| 4. Vectors and Matrices 100% | |
| 5. Indexing into and Modifying Arrays 100% | |
| 6. Array Calculations 100% | |
| 7. Calling Functions 100% | |
| 8. Obtaining Help 100% | |
| 9. Plotting Data 100% | |
| 10. Importing Data 100% | |
| 11. Logical Arrays 100% | |

Certificate of Participation

This is to certify that
Benny Samuel

of **Prathyusha Engineering College (PEC), Thiruvallur** as
Team **600819-UF90T4R2** has participated in the **Quiz**
(Online Assessment) of **Maruti Suzuki XCELerate**
organised by **Maruti Suzuki India Limited**



CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

C. Divaharan

for participating in the Global Tech Summit 2023 held on
February 16-17, 2023 in Visakhapatnam

Dr. T V Narayana

Dr. T V Narayana
National President, Indian
Pharmaceutical Association, India

Kiran Saliki Reddy

Kiran Saliki Reddy
Group CEO, APEITA,
Andhra Pradesh, India

Dr. Srinubabu Gedela

Dr. Srinubabu Gedela
CEO, PLUSUS GROUP
UK

Knowledge Partners



Local Partners & supporters



International Partners & supporters



**CERTIFICATE
OF PARTICIPATION**

This is to certify that, Mr./Ms.

KAVIARASAN.Vof PRATHYUSHA ENGINEERING COLLEGE

has participated

in IDEATHON

of OMICS '23 - A National Level Technical Symposium Organized by Students' Biotech Forum & Department of Biotechnology, Sri Venkateswara College of Engineering, on 3rd April 2023.

Faculty Coordinators
BiotechnologyDr. E. Nakkeeran
HOD-BIODr. S. Ganesh Vaidyanathan
Principal

**CERTIFICATE
OF PARTICIPATION**

This is to certify that, Mr./Ms.

GURUDEV. K.

of PRATHYUSHA ENGINEERING COLLEGE

has participated

in IDEATHON

of OMICS '23 - A National Level Technical Symposium Organized by Students' Biotech Forum & Department of Biotechnology, Sri Venkateswara College of Engineering, on 3rd April 2023.

Faculty Coordinators
Biotechnology

Dr. E. Nakkeeran
HOD-BIO

Dr. S. Ganesh Vaidyanathan
Principal

Ref No. NCIEM 132



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GRT Mahalakshmi Nagar, Chennai - Tirupathi Highway, Tiruttani - 631209. Tamilnadu.

10th NATIONAL CONFERENCE ON INNOVATION IN ENGINEERING AND MANAGEMENT - NCIEM 2023

Certificate

This is to certify that Dr./Mr./Ms. SRIRAM. R of
PRATHYUSHA ENGINEERING COLLEGE has presented / participated a paper entitled
DUAL AXIS SOLAR TRACKER WITH DISTURBANCE DETECTOR
in the National Conference on Innovation in Engineering and
Management (NCIEM-2023) organized by All UG and PG Departments on 28th April, 2023.


Dr. P. SIVAKUMAR
CONVENER


Dr. S. ARUMUGAM
PRINCIPAL


Dr. K.S. MEENAKSHISUNDARAM
DEAN

Ref. No. NCIEN132



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10th NATIONAL CONFERENCE ON INNOVATION IN ENGINEERING AND MANAGEMENT - NCIEM 2023

Certificate

This is to certify that Dr./Mr./Ms. SUNIL KUMAR . A of
PRATHYUSHA ENGINEERING COLLEGE has presented / participated a paper entitled
DUAL AXIS SOLAR TRACKER WITH DISTURBANCE DETECTOR
in the National Conference on Innovation in Engineering and
Management (NCIEM-2023) organized by All UG and PG Departments on 28th April, 2023.


Dr. P. SIVAKUMAR
CONVENER


Dr. S. ARUMUGAM
PRINCIPAL


Dr. K.S. MEENAKSHISUNDARAM
DEAN

Ref No. NCIEM 132



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10th NATIONAL CONFERENCE ON INNOVATION IN ENGINEERING AND MANAGEMENT - NCIEM 2023

Certificate

This is to certify that Dr./Mr./Ms. SURESH KUMAR. R of
PRATHYUSHA ENGINEERING COLLEGE has presented / participated a paper entitled
DUAL AXIS SOLAR TRACKER WITH DISTURBANCE DETECTOR
in the National Conference on Innovation in Engineering and
Management (NCIEM-2023) organized by All UG and PG Departments on 28th April, 2023.


Dr. P. SIVAKUMAR
CONVENER


Dr. S. ARUMUGAM
PRINCIPAL


Dr. K.S. MEENAKSHISUNDARAM
DEAN