



P.T.Lee CHENGALVARAYA NAICKER
COLLEGE OF ENGINEERING AND TECHNOLOGY
Veliyur Post, Kanchipuram, 631502



DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING



THE ROLE OF EMBEDDED SYSTEMS IN RENEWABLE ENERGYSOLUTIONS.”



OCTOBER 10, 2024



**P.T.Lee CHENGALVARAYA NAICKER
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THE ROLE OF EMBEDDED SYSTEMS IN RENEWABLE ENERGY SOLUTIONS

DATE	TIME	VENUE
18/10/2024	10.00AM	SEMINAR HALL



**CHIEF GUEST
Dr. R.RAMESH**



P.T.Lee CHENGALVARAYA NAICKER
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CHIEF GUEST PROFILE

DR. R. RAMESH
PROFESSOR & NATIONAL AWARDEE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING,
COLLEGE OF ENGINEERING GUINDY CAMPUS,
ANNA UNIVERSITY,
CHENNAI – 600 025, INDIA

COLLEGIATE:

PH.D. (2008, FACULTY OF ELECTRICAL ENGINEERING, ANNA UNIVERSITY)
M.E- POWER SYSTEMS ENGINEERING(2002, ANNAMALAI UNIVERSITY)
B.E-ELECTRICAL AND ELECTRONICS ENGINEERING
(HINDUSTAN COLLEGE OF ENGINEERING, UNIVERSITY OF MADRAS)

PROFESSIONAL:

PROFESSOR,
AUGUST 2015 – TILL DATE
DEPT OF ELECTRICAL AND ELECTRONICS ENGINEERING ,
CEG CAMPUS, ANNA UNIVERSITY , CHENNAI.

AUGUST 2009 – AUGUST 2015
ASSISTANT PROFESSOR / ASSOCIATE PROFESSOR,
DEPT OF ELECTRICAL AND ELECTRONICS ENGINEERING ,
CEG CAMPUS, ANNA UNIVERSITY , CHENNAI.

LECTURER & SR.LECTURER,
DECEMBER 2003 - AUGUST 2009
DEPT OF ELECTRICAL AND ELECTRONICS ENGINEERING ,
CEG CAMPUS, ANNA UNIVERSITY, CHENNAI.

RESEARCH :

INTERNATIONAL JOURNALS: 73
INTERNATIONAL CONFERENCES: 52
NO. OF PH.D. STUDENTS COMPLETED: 17
ON GOING: 05
NO OF SPONSORED & CONSULTANCY PROJECTS: 1
NO. OF PG THESIS COMPLETED: 50+

ACADEMIC:

FDP(S)/WORKSHOPS/SEMINARS/CONFERENCES
ORGANISED: 15
ATTENDED: 44



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AREA OF SPECIALISATION:

- DESIGN OF ELECTRICAL APPARATUS
- DESIGN OF EMBEDDED SYSTEM
- DISTRIBUTED EMBEDDED COMPUTING
- REAL TIME OPERATING SYSTEMS
- EMBEDDED SYSTEM
- SMART GRID, IOT
- RENEWABLE ENERGY

SCOPUS

H-INDEX: 7

CITATIONS: 203

GOOGLE SCHOLAR

H-INDEX: 11

CITATIONS: 419

I10-INDEX :12

AWARDS:

- 1) NATIONAL AWARD BY HON'BLE PRESIDENT OF INDIA ON YEAR: 2022
- 2) COMMENDATION BY ANNA UNIVERSITY ON YEAR: 2023
- 3) YOUNG ENGINEERS AWARD BY THE INSTITUTIONS OF INDIA ON YEAR: 2012
- 4) YOUNG TEACHER AWARD BY THE INSTITUTION OF ENGINEERING AND TECHNOLOGY ON 201



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Education is Empowerment

**P.T.Lee CHENGALVARAYA NAICKER
COLLEGE OF ENGINEERING AND TECHNOLOGY**

Vallal P.T.Lee, Chengalvaraya Naicker Nagar,
Govery, Veliyur Post, Kanchipuram - 631 502.



**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

Invites you all to the

**Inauguration of Association of
Electrical and Electronics Engineers and
Seminar on**

**The Role of Embedded Systems in
Renewable Energy Solutions**

DATE : 18.10.2024 FRIDAY | TIME : 10.00 AM | VENUE : SEMINAR HALL



With blessings of Honourable Chairman

Thiru. Justice P. KALAIYARASAN

Former Judge, High Court of Madras,
Hon'ble Chairman, P.T.Lee CN Trust, Chennai.

Hon'ble Trustees

Thiru. V.CHANDRASEKARAN, I.A.S., I.C.S.

Dr. H.VENKATESH, B.E., M.E.

Thiru. S.SATHAPILLAI, I.A.S., I.C.S.

Dr. BARISTATILE, B.Sc., M.Phil., Ph.D.

Dr. R.KANNAIYAN, M.B.A., M.B.

Thiru. M.RAJENDRAN, M.Com.

Thiru. S.RENUKA, M.A., M.B.A.

Thiru. M.N.VIJAYASUNDARAM, M.A.

Resource Person

Dr. R.RAMESH

Professor & National Awardee
Department of Electrical and Electronics Engineering
College Of Engineering Guindy Campus
Anna University, Chennai



SECRETARY

**Thiru. M.SAMBASIVAM, B.Sc., B.L.,
FORMER - DISTRICT JUDGE**

DIRECTOR

**Dr. MARULARASU, B.E., M.E., Ph.D., F.IETE,
P.T.Lee CNCET, Kanchipuram.**

**Dr. P. PALANISAMY, M.E., Ph.D.,
Principal**

**Dr. S.BOOPATHI, M.E., Ph.D.,
Vice Principal**

Dr. K.VENKATESAN Professor / EEE



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AUDIENCE

IIInd YEAR EEE

IIIrd YEAR EEE

IV YEAR EEE

Total Strength: 160



ABOUT THE PROGRAM

Overview:

In the seminar, the following topics were discussed by our Chief Guest.

1. Introduction to Embedded Systems Renewable energy sources (Solar, wind and hydro).
2. Embedded Systems in solar energy harvesting.
3. Embedded Systems in wind energy conversion.
4. Embedded Systems in hydro energy management.
5. Micro grid using IOT.

Key Takeaways:

1. Embedded Systems play crucial role in optimizing renewable energy solutions.
2. Microcontroller and IOT sensors enable efficient energy harvesting and monitoring.
3. Embedded systems ensure reliable and fault- tolerant operation of renewable energy systems.
4. Real time data analysis and control are essential for maximizing energy output.

Conclusion:

The Seminar highlighted the significance of embedded systems in renewable energy Solutions for sustainability.



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CO, PO MAPPING



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FEED BACH FROM STUDENTS

P.T.Lee CHENGALVARAYA NAICKER
COLLEGE OF ENGINEERING AND TECHNOLOGY
P.T.Lee, Chengalvaraya Naicker Nagar, Covery,
Veliyur Post, Kanchipuram, 631 502.

STUDENT FEEDBACK (TO BE FILLED BY STUDENTS)

Organized by	Electrical and Electronic Department		
Resource Person	Dr R Ramesh		
Title of the Event	The role of embedded systems in Renewable energy		
Name of the Student	R. Jayaganesh	Roll No./Reg. No	511521105019
Department	BE.EEE	Year	IV
College Name	P.T.Lee CNCET		

- How was the overall organization of the lecture?
The overall organization of the lecture was really good and satisfied
- How relevant was the content discussed by the speaker?
The content discussed by the speaker is very good and nice
- Did the lecture cover what you were expecting?
The lecture covered by the Resource person was covered all the topics in the title
- How much this session was useful from the knowledge and information point of view
The session was very useful and I gained some knowledge and information
- Overall effectiveness of the lecture?
It is very good



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COLLEGE OF ENGINEERING AND TECHNOLOGY**

P.T. Lee Chengalvaraya Naicker Nagar, Dovern,
Veliyur Post, Kanchipuram, 631 502.



STUDENT FEEDBACK (TO BE FILLED BY STUDENTS)

Organized by	Department of EEE		
Resource Person	Dr. R. Ramesh		
Title of the Event	"The Role of Embedded Systems in Renewable Energy Solutions"		
Name of the Student	S. Navmadha	Roll No./Reg. No.	51521105032
Department	EEE	Year	IV
College Name	P.T. Lee CNCET		

1. How was the overall organization of the lecture?

It was Very useful and helpful for me and my Department Students for our future Development.

2. How relevant was the content discussed by the speaker?

The Content about Embedded System, IoT, Renewable Energy, it was very relevant for students.

3. Did the lecture cover what you were expecting?

Yes. His Explanation about the topic was clear and very good understanding.

4. How much this session was useful from the knowledge and information point of view

The Session was very useful for our future, the contents gave more knowledge.

5. Overall effectiveness of the lecture?

It is very useful and helpful for Future Knowledge.



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COLLEGE OF ENGINEERING AND TECHNOLOGY

P.T. Lee Chengalvaraya Naicker Nagar, Ooverly,
Veliyur Post, Kanchipuram, 631 502.



STUDENT FEEDBACK (TO BE FILLED BY STUDENTS)

Organized by	Department of EEE		
Resource Person	Dr. R. Ramesh		
Title of the Event	The role of Embedded System in R.E Solutions		
Name of the Student	P. Rajarajeshwari	Roll No./Reg No.	511531105039
Department	EEE	Year	IV
College Name	P. T. Lee. CNCET		

1. How was the overall organization of the lecture?

They are crucial in the Energy Sector,
Particularly for Smart grid & RE Management

2. How relevant was the content discussed by the speaker?

IOT, Industrial machinery, Automotive Industry,
Smart Grid, Software quality

3. Did the lecture cover what you were expecting?

Yes. His explanation about the topic was
clear and very good understanding

4. How much this session was useful from the knowledge and information point of view

The lecture was very useful for
improve for student knowledge and clarity of topic

5. Overall effectiveness of the lecture?

It was very useful for improve my advanced
Embedded System and IOT. knowledges.



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