



VAAGESWARI COLLEGE OF ENGINEERING

Beside L.M.D Police Station, Ramakrishna Colony, Thimmapur, Karimnagar

(Approved by AICTE New Delhi & Affiliated to JNTU Hyderabad)

Date: 08/02/2023

To

The Principal,
Vaageswari College of Engineering,
Karimnagar.

Subject: Request Proposal to Conduct Five day FDP on “**power electronics applications in smart grids and electric vehicles**”-Reg.

Respected Sir,

In Accordance to Subject cited above I, Head of the Department of Electrical Engineering here with request with this letter to permit us to conduct a Five day Faculty Development Program on “**power electronics applications in smart grids and electric vehicles**” during **13-02-2023 To 17-02-2023**. I also request you to provide all the required facilities.

Thanking You,

Yours Sincerely

HOD-Electrical Engg.

Handwritten signature of the Principal
Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.



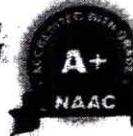
VAAGESWARI COLLEGE OF ENGINEERING

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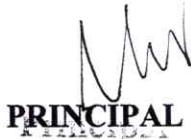
ESTD : 2005

CIRCULAR

Date: 08-02-2023

It is hereby informed to **Department of Electrical and Electronics Engineering** that a One-Week Faculty Development Program will be held on "**POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES**" from 13th to 17th Feb 2023. All the teaching and non-teaching members should avail this opportunity to upgrade the technical skills.

Hence, all teaching and non-teaching members should attend the above FDP program without fail.



PRINCIPAL

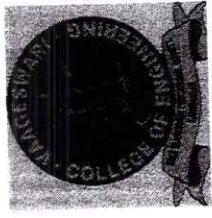
Vaageswari College of Eng
KARIMNAGAR-505 527

Copies to:

- Circulate among all the staff members
- All the Notice Boards
- All HODs
- Office File



Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527



ADVISORY COMMITTEE

CHIEF PATRON

Dr. G. Sreenivas Reddy

General Secretary and Correspondent

PATRONS

Sri.D. Srinivas Reddy

Joint Secretary

Dr. Ch. Srinivas

Principal

COORDINATOR

Dr. K. CHANDRA MOULI

Associate Professor, Dept. of EEE

Mr. N. KIRANKUMAR

Associate Professor, Dept. of EEE

Mr. M.RAMANA REDDY

Associate Professor, Dept. of EEE

ORGANIZING COMMITTEE

Mr. K. Ramesh

Mr. N. Kiran Kumar

Mr. S.PRAVEEN

Mr. M. Ramana Reddy

Mrs. S.MOUNIKA

Mrs. D.KARUNA

Mr. P.SAMPATH

WORKSHOP CONTENT:

The electrical utility industry is probably the largest and most complex industry in the world and hence very complex and challenging problems are to be handled by electrical engineering particularly in designing future electrical system to deliver increasing amounts of electrical energy. This calls for perfect understanding, analysis and decision making of the system. Power system operation and its control play a very important task in the world of Electrical Power Engineering.

This programme is specially designed for the faculty members in order to further enlighten their understanding of electrical power system. This programme would enable participants to develop concepts and understand the emerging trends and challenges in electrical system. This programme will also motivate faculty members to pursue research & innovation in the area. The FDP is aimed to provide a blend of in depth knowledge of electrical system and scope of research in the area, to enhance the class delivery of the faculty members attending this FDP.

COURSE CONTENT:

- Introduction to Research Areas in Power Systems.
- Renewable Sources and Microgrid.
- Advances in Multilevel Inverters.
- Applications to Wireless Charging System in Electric Vehicles.
- Single-Stage Photovoltaic (PV) Source Fed Induction Motor Drive for Water Pumping Applications.
- Battery Charging of Grid-Interfaced Solar PV System for Electric Vehicles.

Principals
Vaagdevi College of Engineering
KARIMNAGAR-505 527.

CONVENOR

Dr. K. CHANDRAMOULI

HOD & Associate Professor

Department of Electrical and Electronics

Engineering

Email: vgse.eehod@gmail.com

ONE - WEEK FACULTY DEVELOPMENT PROGRAM

ON

POWER ELECTRONICS

APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

Organized by

Department of Electrical and Electronics
Engineering

VAAGDEVI COLLEGE OF
ENGINEERING

Karimnagar, Telangana- India

ABOUT THE INSTITUTE:

Established in 2003, Vaageswari Educational Society is one of the most prestigious society providing high quality professional education in Karimnagar district of Telangana. The society is running multiple educational institutions like Vaageswari College of Engineering (2005), Pharmacy (2003), Pharmaceutical Sciences (2007), Management Sciences (2008). The society was established with a great vision to provide quality education on par with global standards to the students from all over India in general and in particular those from local and rural areas. Society is maintaining high standards so as to make them technically competent and ethically strong individuals who shall be able to improve the quality of life and become an asset to the economy of our country. The Society not only celebrates freedom of thought, cultivates vision and encourages growth, but also inculcates human values and concern for the environment and the society. The institution is awarded with Best Chapter of ISTE AP Section.

VISION

Excellence in quality education by keeping pace with the rapidly changing technologies and to create a highly innovative and research oriented man power meeting the global standards in the field of Electrical and Electronics Engineering.

MISSION

To create an excellent academic environment where a strong theoretical knowledge and practical skills can be imparted. Further, the graduates will also be trained in interpersonal communication skills and teamwork along with an emphasis on ethics and morals for the sustainable development of the society.

PROGRAMS OFFERED:

The college offers B.Tech programmes in CSE, EEE,

ABOUT THE DEPARTMENT:

Electrical & Electronics Engineering started in 2005. The Department is bestowed with highly qualified and experienced faculty out of which 2 have completed their Ph.D. The Department offers UG programme in EEE with an objective of imparting quality education in the Electrical and Electronics Engineering and one PG programme in Power Electronics. The Department has well equipped labs with latest simulation & design software. The Department is enriched with PE, PS Labs and R&D. The Department initiated power Club in 2005.

The department is actively engaged in research. The efforts are directed towards reorienting the laboratories to establish close relation with industry. The department has been organizing short term training programs, seminars, workshops, guest lectures by experts, technical & non-technical student fests regularly. The department is working for the improvement of Industry – Institute Interaction in terms of academics & research and also for the development of infrastructure to match the needs of the industry. The department is striving hard to attain & sustain as a centre of excellence in Electrical engineering education & research with a holistic approach.

The faculty strives to foster and encourage a teaching methodology that is both practical and theoretical in approach tuning to the requirements of the latest developments in research and industry in the field of Electrical and Electronics Engineering.

Further, the graduates will also be trained in interpersonal communication skills and teamwork along with an emphasis on ethics and morals for the

REGISTRATION FORM:

Please fill this form and send it to us by email to marpuramesh223@gmail.com before 18th June 2020

Name of the Participant: _____

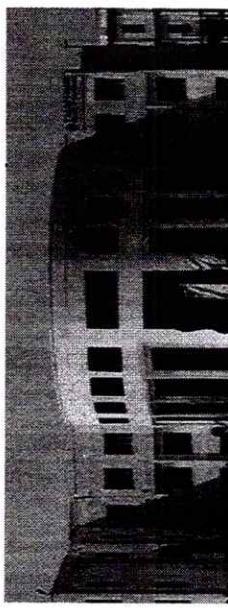
Designation: _____

Department: _____

Organization name and Address: _____

Signature and Seal of the
Head /Director of the Institute

NO REGISTRATION FEE





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Department of Electronics and Communication Engineering

One Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

STORAGE

(13/02/2023 to 17/02/2023)

SPEAKER PROFILES

Dr. K.CHANDRAMOULI, completed his Ph.D from SATHYA SAI University. Currently he is working as an Associate Professor at Vaageswari College of Engineering. His research interests include Advanced Power System and AI Techniques and FACTS.

Mr. N.Kiran Kumar completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include Power Engineering & Energy Systems.

Dr. P.Pranay kumar, completed his Ph.D from SATHYA SAI University. Currently he is working as an Associate Professor at Vaageswari College of Engineering. His research interests include Power Quality and Facts devices.

Mr.M.Ramana reddy, completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include Electrical Power Systems.

M.M
Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.



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Department of Electronics and Communication Engineering

One Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

(13/02/2023 to 17/02/2023)

SCHEDULE

Date	Afternoon Session (04.00PM-06.00 PM)	Resource Person
13-02-2023	Introduction to Research Areas in Power Systems.	Dr. K.CHANDRAMOULI Associate Professor, Electrical Engineering Department, Vaageswari college of engineering.
14-02-2023	Renewable Sources and Microgrid.	Dr. p.pranay Kumar Assistant Professor, Dept. of Electrical Engineering Vaageswari college of engineering
15-02-2023	Applications to Wireless Charging System in Electric Vehicles.	Mr.N.Kirankumar Professor Department of Electrical Engineering Vaageswari college of engineering.
16-02-2023	Advances in Multilevel Inverters.	Mr.M.Ramanareddy Associate Professor, Department of Electrical Engineering Vaageswari college of engineering.
17-02-2023	Battery Charging of Grid-Interfaced Solar PV System for Electric Vehicles	Dr. K.CHANDRAMOULI Associate Professor, Electrical Engineering Department, Vaageswari college of engineering.

Principal
Vaageswari College of Engineering

HOD

Coordinator

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 321



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Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

(13/02/2023 to 17/02/2023)

LIST OF PARTICIPANTS

S.No	Name	Signature
1	K.RAMESH	Ramesh
2	N.KIRAN KUMAR	Kiran
3	M.RAMANA REDDY	Reddy
4	D.KARUNA	Karuna
5	S.MOUNIKA	Mounika
6	S.PRAVEEN	Praveen
7	M.NAGA RAJU	Naga Raju
8	J.RAJU	J.Raju
9	P.SAMPATH	Sampath
10	M.MAMATHA	Mamatha
11	R.LAVANYA	R.Lavanya
12	M.SATHISH	Sathish
13	CH.SABHITHA RANI	Chabhitha Rani
14	D.SNEHA	Sneha
15	M.SHIVA KUMAR	Shiva Kumar
16	B.PRANITH KUMAR	Pranith Kumar
17	P.PRANAY KUMAR	Pranay Kumar


Coordinator


HOD


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Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.


Principal
Vaageswari College of Engineering
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Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

(13/02/2023 to 17/02/2023)

ATTENDANCE SHEET

S.No	Name	13/02/23	14/02/23	15/02/23	16/02/23	17/02/23
1	K.RAMESH	✓	✓	✓	✓	✓
2	N.KIRAN KUMAR	✓	✓	✓	✓	✓
3	M.RAMANA REDDY	✓	✓	✓	✓	✓
4	D.KARUNA	✓	✓	✓	✓	✓
5	S.MOUNIKA	✓	✓	✓	✓	✓
6	S.PRAVEEN	✓	✓	✓	✓	✓
7	M.NAGA RAJU	✓	✓	✓	✓	✓
8	J.RAJU	✓	✓	✓	✓	✓
9	P.SAMPATH	✓	✓	✓	✓	✓
10	M.MAMATHA	✓	✓	✓	✓	✓
11	R.LAVANYA	✓	✓	✓	✓	✓
12	M.SATHISH	✓	✓	✓	✓	✓
13	CH.SABHITHA RANI	✓	✓	✓	✓	✓
14	D.SNEHA	✓	✓	✓	✓	✓
15	M.SHIVA KUMAR	✓	✓	✓	✓	✓
16	B.PRANITH KUMAR	✓	✓	✓	✓	✓
17	P.PRANAY KUMAR	✓	✓	✓	✓	✓


Coordinator


HOD


Principal
Principal

Vaageswari College of Engi
KARIMNAGAR-505 527


Principal
Vaageswari College of Engine
KARIMNAGAR-505 527



Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: M. SATHISH

Designation: Asst. Prof.

Please respond to the following items by using the scale below:

5=Excellent 4=Very Good 3=Good 2=Fair 1=Poor

1. The speaker presented materials clearly and concisely.

5 4 3 2 1

2. The speaker covered the material sufficiently.

5 4 . 3 2 1

3. The information presented was relevant to your needs and expectations.

5 4 3 2 1

4. Sufficient opportunity was provided for questions.

5 4 3 2 1

5. You were pleased with the presentation.

5 4 3 2 1

~~Signature~~


Vaageswari College of Engineering
Karimnagar-505 527.



Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: R. LAVANYA

Designation: Asst. prof

Please respond to the following items by using the scale below:

5=Excellent 4=Very Good 3=Good 2=Fair 1=Poor

1. The speaker presented materials clearly and concisely.

5 4 3 2 1

2. The speaker covered the material sufficiently.

5 4 3 2 1

3. The information presented was relevant to your needs and expectations

5 4 3 2 1

4. Sufficient opportunity was provided for questions

⁵ See, for example, the discussion of the 1992 Constitutional Convention in the *Constitutional Convention of 1992: The Final Report* (1993).

5. You were pleased with the presentation

⁵ See, for example, the discussion of the 1992 Constitutional Convention in the *Constitutional Convention of 1992: The Final Report* (1993).

R. Lovell
Signature

111

Prinsipal

Principal
Jeswani College of Engineering
KARIMNAGAR-505 521.



Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: D. Karuna

Designation: Assistant professor

Please respond to the following items by using the scale below:

5=Excellent 4=Very Good 3=Good 2=Fair 1=Poor

1. The speaker presented materials clearly and concisely.

5 4 3 2 1

2. The speaker covered the material sufficiently.

4 3 2 1

3. The information presented was relevant to your needs and expectations.

5 4 3 2 1

4. Sufficient opportunity was provided for questions.

5 4 3 2 1

5. You were pleased with the presentation.

2 4 3 2 1

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Principal
Jaageswari College of Engineering
KARIMNAGAR-505 527



Signature



Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND

ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: P. Pranay Kumar

Designation: Assoc. prof

Please respond to the following items by using the scale below:

5=Excellent 4=Very Good 3=Good 2=Fair 1=Poor

1. The speaker presented materials clearly and concisely.

5 4 3 2 1

2. The speaker covered the material sufficiently.

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3. The information presented was relevant to your needs and expectations.

5 4 3 2 1

4. Sufficient opportunity was provided for questions.

5 4 3 2 1

5. You were pleased with the presentation.

5 ✓4 3 2 1

Pranay
Signature

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.



VAAGESWARI COLLEGE OF ENGINEERING

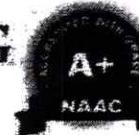
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Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: Ch. Sabitha Rani

Designation: Ass't. Prof

Please respond to the following items by using the scale below:

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5 4 3 2 1


Signature

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.



Department of Electrical and Electronics Engineering
One-Week Faculty Development Program on
POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND
ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: K.Ramesh

Designation: Assoc. prof

Please respond to the following items by using the scale below:

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1. The speaker presented materials clearly and concisely.

5 ✓4 3 2 1

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5 4 3 2 1

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5 ~~4~~ 3 2 1

5. You were pleased with the presentation.

5 4 3 2 1


Signature

Signature

A handwritten signature in blue ink, tilted diagonally upwards from the bottom left. The text reads 'Principal' in large letters, followed by 'Vaageswari College of Engineering' and 'KARIMNAGAR-505 527'. Above the signature, there is a stylized, wavy green line drawing.



Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND

ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: M. Shiva Kumar

Designation: Asst. Professor

Please respond to the following items by using the scale below:

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5 4 3 2 1

Shiva
Signature



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Department of Electrical and Electronics Engineering
One-Week Faculty Development Program on
**POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND
ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)**

FEEDBACK

Name of the Participant: R. Poanithi Kumar

Designation: Asst Professor

Please respond to the following items by using the scale below:

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5 4 3 2 1


Signature


Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.



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Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND

ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: D. Sneha

Designation: Asst. Professor

Please respond to the following items by using the scale below:

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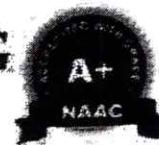
5 4 3 2 1

5. You were pleased with the presentation.

5 4 3 2 1

Sneha
Signature

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527



Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

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ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)

FEEDBACK

Name of the Participant: S. Monika

Designation: Asst. Prof

Please respond to the following items by using the scale below:

5=Excellent 4=Very Good 3=Good 2=Fair 1=Poor

1. The speaker presented materials clearly and concisely.

✓ 5 4 3 2 1

2. The speaker covered the material sufficiently.

5 4 3 2 1

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5 4 3 2 1

4. Sufficient opportunity was provided for questions.

✓ 5 4 3 2 1

5. You were pleased with the presentation.

5 4 3 2


Signature



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Department of Electrical and Electronics Engineering

One-Week Faculty Development Program on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

(13/02/2023 to 17/02/2023)

REPORT

A One - Week Faculty Development Program on “

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES

” was organized by Department of Electrical and Electronics Engineering, Vaageswari college of Engineering from 13th to 17th Feb 2023 for the faculty of EEE Department. Several faculty members of the Department actively participated and gained useful information from all the sessions.

The electrical utility industry is probably the largest and most complex industry in the world and hence very complex and challenging problems are to be handled by electrical engineering particularly in designing future electrical system to deliver increasing amounts of electrical energy. This calls for perfect understanding, analysis and decision making of the system. Power system operation and its control play a very important task in the world of Electrical Power Engineering.

This program is specially designed for the faculty members in order to further enlighten their understanding of electrical power system. This program would enable participants to develop concepts and understand the emerging trends and challenges in electrical system. This program will also motivate faculty members to pursue research & innovation in the area. The FDP is aimed to provide a blend of in depth knowledge of electrical system and scope of research in the area, to enhance the class delivery of the faculty members attending this FDP.

Outcomes of the Faculty Development Program:

After Completion of FDP, the participants are able to

1. Understand the basics of Renewable Sources and Microgrid.
2. Understand the Applications to Wireless Charging System in Electric Vehicles.
3. Understand Battery Charging of Grid-Interfaced Solar PV System for Electric Vehicles.

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.



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4. Understand Single-Stage Photovoltaic(PV) Source Fed Induction Motor Drive for Water Pumping Applications

Principal
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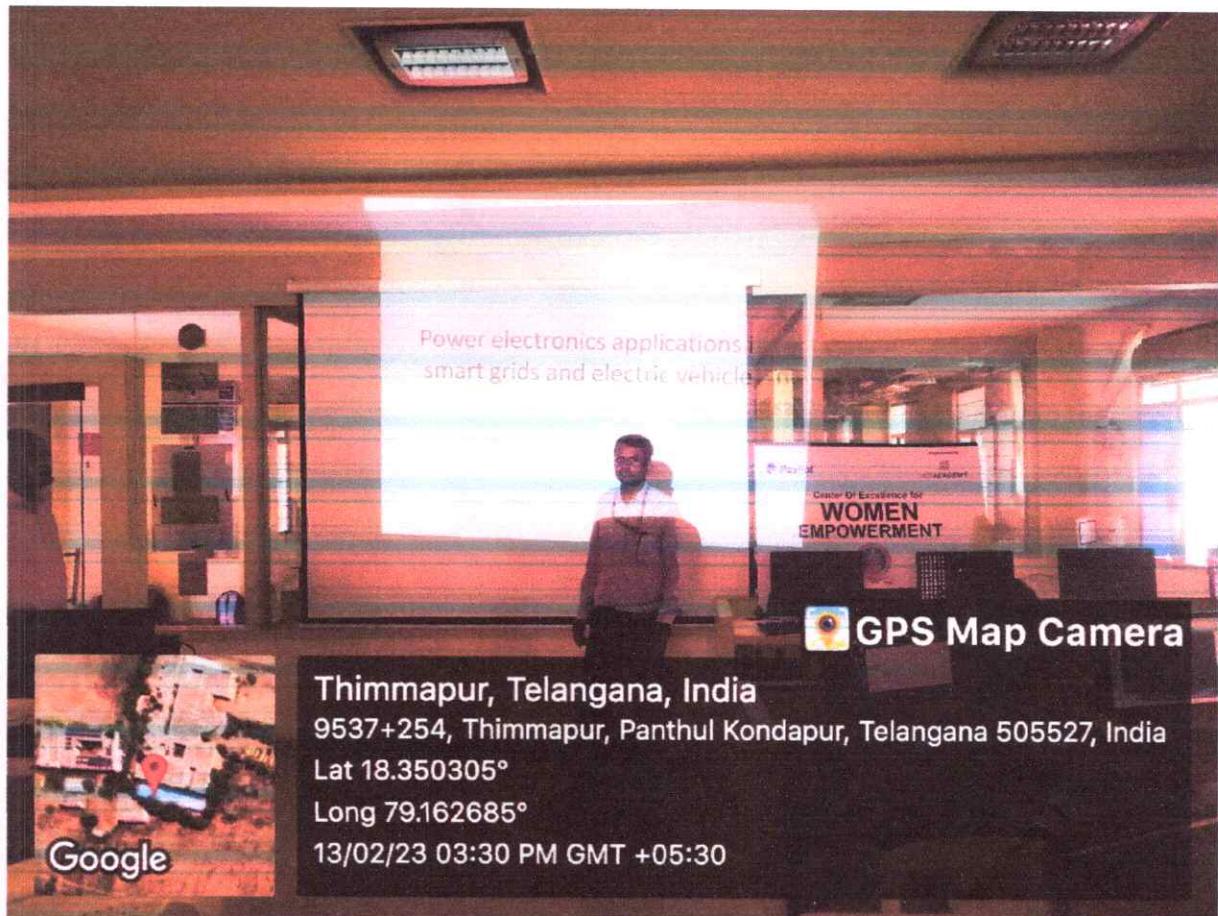


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Department of Electrical and Electronics Engineering
One-Week Faculty Development Program on
POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND
ELECTRIC VEHICLES (13/02/2023 to 17/02/2023)



Thimmapur, Telangana, India

9537+254, Thimmapur, Panthul Kondapur, Telangana 505527, India

Lat 18.350305°

Long 79.162685°

13/02/23 03:30 PM GMT +05:30


Principal

Vaageswari College of Engineering
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