



# VAAGESWARI COLLEGE OF ENGINEERING

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

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

Date: 15/03/2022

To  
The Principal,  
Vaageswari College of Engineering,  
Karimnagar.

**Subject: Request Proposal to Conduct Five day FDP on “Advances in Control and Its Application in Power Technology”-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 “Advances in Control and Its Application in Power Technology” during 22-03-2022 To 26-03-2022. I also request you to provide all the required facilities.

Thanking You,

Yours Sincerely

HOD-Electrical Engg.

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



# VAAGESWARI COLLEGE OF ENGINEERING

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

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

5

## CIRCULAR

Date: 15-03-2022

It is hereby informed to **Department of Electrical and Electronics Engineering** that a five-day Faculty Development Program will be held on “**Advances in Control and Its Application in Power Technology**” from 22<sup>nd</sup> to 26<sup>th</sup> March 2022. 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.

### Copies to:

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

**PRINCIPAL**

Vaageswari College of Engineering  
KARIMNAGAR-505 527.

**Principal**

Vaageswari College of Engineering  
KARIMNAGAR-505 527.

### WORKSHOP CONTENT:

Increasing public awareness of the environmental impact of greenhouse emissions coupled with the development of efficient battery technology has pushed for the accelerating research and development activities in electric vehicles. This program will focus on need of power electronics for improving the performance of Electric Vehicles and Energy Storage System.

This FDP will also emphasis on recent advancement in charging infrastructures, battery/energy management approaches and motor drives of the electric vehicles.

Overall, this FDP will serve as a platform to upgrade the knowledge of Power Electronic applications in electric vehicles and energy storage systems.

### COURSE CONTENT:

- Automotive Power Electronics.
- Fault Detection in Power Converters for Battery charging Systems.
- Power Converter Design for Battery Charging and Battery Management System.
- Design of Efficient and Reliable Electric Drives for EV.
- Condition monitoring of propulsion motors used in EV.
- Bidirectional Power Converters for V2G and G2V Applications

### 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.CHANDRAMOULI  
Associate Professor, Dept. of EEE

### ORGANIZING COMMITTEE

Mr. N.Kiran Kumar  
Mr. M. Ramana Reddy  
Ms.K. Sandhyarani  
Mr. M.Mamatha  
Mr.P.Sampath  
Mr. S.Praveenkumar

#### CONVENOR

**Mr. M.RAMANA REDDY**

Associate Professor  
Department of Electrical and Electronics  
Engineering

Email: vaageswari.eee@gmail.com

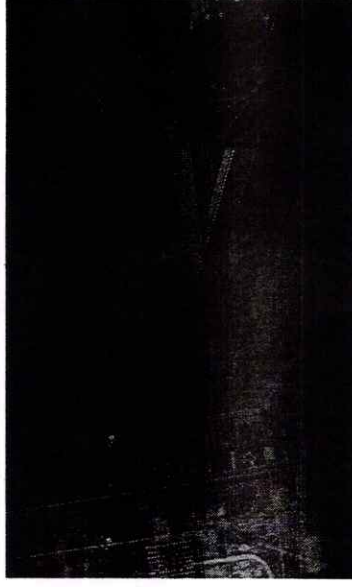
Phone: +91-9848744424



## FIVE-DAY FACULTY DEVELOPMENT PROGRAM

ON

## " ADVANCES IN CONTROL AND ITS APPLICATION IN POWER TECHNOLOGY



Organized by

**Department of Electrical and Electronics  
Engineering**

**VAAGESWARI COLLEGE OF**

**ENGINEERING**

**Karimnagar, Telangana- India**

**22<sup>nd</sup> to 26<sup>th</sup> march, 2022**

\*\*\*\*\*

Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527



### 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, ECE, Civil and Mechanical Engineering. The college also offers MCA and M.Tech in Computer Science and Engineering.

### 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 festivals 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 sustainable development of the society.   
Vaageswari College of Engineering  
KARIMNAGAR-505 001

### REGISTRATION FORM:

Please fill this form and send it to us by email to [vaageswari.eee@gmail.com](mailto:vaageswari.eee@gmail.com) before 22nd March 2022

Name of the Participant: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

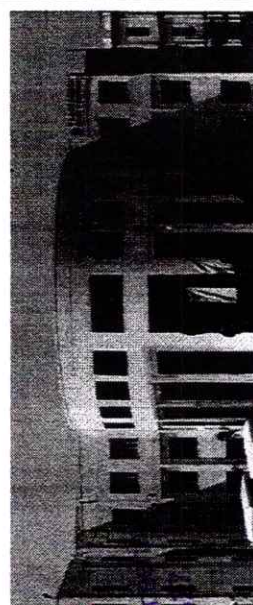
Organization name and Address: \_\_\_\_\_

Mobile Number: \_\_\_\_\_

Email id: \_\_\_\_\_

Signature and Seal of the  
Head /Director of the Institute

**NO REGISTRATION FEE**





# VAAGESWARI COLLEGE OF ENGINEERING

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

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

Department of Electronics and Communication Engineering

Five-Day Faculty Development Program on

" Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)

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## SPEAKER PROFILES

**Dr. Ramesh Marpu**, completed his Ph.D from Jawaharlal Nehru Technological 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 Syatems.

**Mr.B Pranith 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 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.

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





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## DAY 1(22/03/2022)

This Session is engaged by **Dr. RAMESH MARPU**, HOD & Associate Professor, Department of EEE, Vaageswari College of Engineering given overview on Automotive Power Electronics.

## DAY 2(23/03/2022)

**Mr. M.Ramana reddy**, Assistant Professor, Department of EEE, Vaageswari College of Engineering covered the topics on Fault Detection in Power Converters and Power Converter Design for Battery Charging and Battery Management System..

## DAY 3(24/03/2022)

This Session is engaged by **Mr. B Pranith Kumar**, Assistant Professor, Department of EEE, Vaageswari College of Engineering given presentation on Design of Efficient and Reliable Electric Drives for EV.

## DAY 4(25/03/2022)


This Session is engaged by **Mr. B Pranith Kumar**, Assistant Professor, Department of EEE, Vaageswari College of Engineering given presentation on Design of Efficient and Reliable Electric Drives for EV.

## DAY 5(26/03/2022)

**Mr. N.Kiran Kumar**, Assistant Professor, Department of EEE, Vaageswari College of Engineering discussed about the Bidirectional Power Converters for V2G and G2V Applications.

  
Coordinator

  
HOD

  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.

  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.



# VAAGESWARI COLLEGE OF ENGINEERING

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Department of Electrical and Electronics Engineering

Five-Day Faculty Development Program on

"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)

## SCHEDULE

Date	Morning Session (10.00 AM -12.30 AM)	Afternoon Session (1.30PM-4.00 PM)	Resource Person
22-03-2022	<b>Inauguration</b> (10.00AM to 11.00AM) Introduction to Power Electronics	Automotive Power Electronics	Dr. Ramesh Marpu, HOD & Associate Professor, Department of EEE.
23-03-2022	Fault Detection in Power Converters for Battery charging Systems	Power Converter Design for Battery Charging and Battery Management System	Mr. M.Ramanareddy, Assistant Professor, Department of EEE.
24-03-2022	Design of Efficient and Reliable Electric Drives for EV	Design of Efficient and Reliable Electric Drives for EV	Mr. B Pranith Kumar, Assistant. Professor, Department of EEE.
25-03-2022	Condition monitoring of propulsion motors used in EV	Condition monitoring of propulsion motors used in EV	Mr. B Pranith Kumar, Assistant. Professor, Department of EEE.
26-03-2022	Bidirectional Power Converters for V2G and G2V Applications	Bidirectional Power Converters for V2G and G2V Applications <b>Feedback and Valedictory</b> (03.00PM to 04.00PM)	Mr. N.Kiran Kumar, Assistant Professor, Department of EEE.

Coordinator

HOD

Principal

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Vaageswari College of Engineering  
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Department of Electrical and Electronics Engineering

Five-Day Faculty Development Program on

"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"

## LIST OF PARTICIPANTS

S.No	Name	Signature
1	RAMESH MARPU	
2	MOHAMMAD IMRAN	
3	NARSINGOJU KIRAN KUMAR	
4	RAMANA REDDY MANDATI	
5	KANTHALA SANDHYARANI	
6	THUMULA SAMATHA	
7	B PRANITH KUMAR	
8	SURESH PALLEPAGA	
9	M V PRAVEEN REDDY	
10	POKALA PRANAY KUMAR	
11	MANDA SATHISH	
12	SEEPELLI PRAVEEN	

Coordinator

HOD

Principal  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527

Principal  
Vaageswari College of Engineering  
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Department of Electrical and Electronics Engineering

Five-Day Faculty Development Program on

"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"

## ATTENDANCE SHEET

S.No	Name	22/03/22	23/03/22	24/03/22	25/03/22	26/03/22
1	RAMESH MARPU	✓	✓	✓	✓	✓
2	MOHAMMAD IMRAN	✓	✓	✓	✓	✓
3	NARSINGOJU KIRAN KUMAR	✓	✓	✓	✓	✓
4	RAMANA REDDY MANDATI	✓	✓	✓	✓	✓
5	KANTHALA SANDHYARANI	✓	✓	✓	✓	✓
6	THUMULA SAMATHA	✓	✓	✓	✓	✓
7	B PRANITH KUMAR	✓	✓	✓	✓	✓
8	SURESH PALLEPAGA	✓	✓	✓	✓	✓
9	M V PRAVEEN REDDY	✓	✓	✓	✓	✓
10	POKALA PRANAY KUMAR	✓	✓	✓	✓	✓
11	MANDA SATHISH	✓	✓	✓	✓	✓
12	SEPELLI PRAVEEN	✓	✓	✓	✓	✓

  
Coordinator

  
HOD

  
Principal

Vaageswari College of Engineering  
KARIMNAGAR-505 527.

  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.



**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"**

**FEEDBACK**

Name of the Participant: K. Sandhya Rani

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.

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

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





**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**" Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)**

**FEEDBACK**

Name of the Participant: T. SAMATHA

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

T. Samatha  
Signature

[Signature]  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.



**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"**

**FEEDBACK**

Name of the Participant: B. PRANITH KUMAR

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.

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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

  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.





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

## Five-Day Faculty Development Program on

**"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"**

## 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

  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.

**Department of Electrical and Electronics Engineering**

## Five-Day Faculty Development Program on

**" Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)**

## FEEDBACK

Name of the Participant: MD. Imran

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

Signature

Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.





**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**" Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)**

**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.

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

Pranay  
Signature

Pranay

Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.



**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"**

**FEEDBACK**

Name of the Participant: M. Ramesh

Designation: Asst. 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.

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

Ramesh  
Signature

[Signature]  
Principal  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.





**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**"Advances in Control and Its Application in Power Technology (22/03/2022 to 26/03/2022)"**

**FEEDBACK**

Name of the Participant: M.V. Baveen Reddy

Designation: Asst. 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.                         | 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 |

Baveen  
Signature

[Signature]  
**Principal**  
Vaageswari College of Engineering  
KARIMNAGAR-505 527.



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**Department of Electrical and Electronics Engineering**

**Five-Day Faculty Development Program on**

**"Advances in Control and Its**

**Application in Power Technology(22/03/2022 to 26/03/2022)**

## **REPORT**

A five Day Faculty Development Program on "Advances in Control and Its Application in Power Technology" was organized by Department of Electrical and Electronics Engineering, Vaageswari college of Engineering from 22<sup>nd</sup> to 26<sup>th</sup> March 2022 for the faculty of EEE Department. Several faculty members of the Department actively participated and gained useful information from all the sessions.

This Faculty Development Program (FDP) is devoted to Increasing public awareness of the environmental impact of greenhouse emissions coupled with the development of efficient battery technology has pushed for the accelerating research and development activities in electric vehicles. This program will focus on need of power electronics for improving the performance of Electric Vehicles and Energy Storage System.

This FDP will also emphasis on recent advancement in charging infrastructures, battery/energy management approaches and motor drives of the electric vehicles.

### **Outcomes of the Faculty Development Program:**

After Completion of FDP, the participants are able to

1. Understand the basics of electric vehicles, their architecture, technologies and fundamentals.
2. Analyze the use of different power electronic converters, Inverters and motors in electric vehicles.
3. Understand the use of different battery systems used for electric vehicles, their technologies and control and select appropriate technology.
4. Understand Indian Market policies on Electric Vehicles.

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





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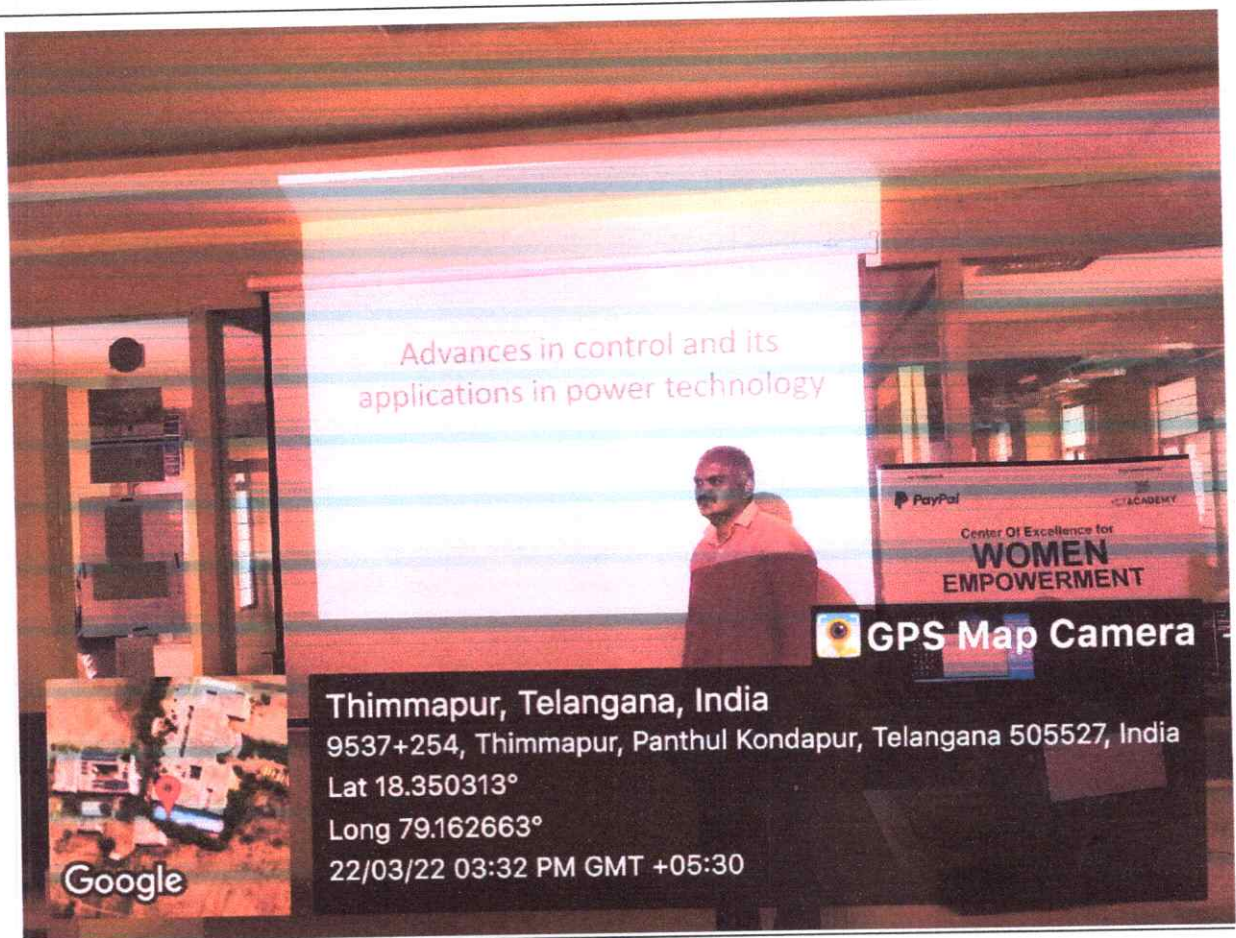
Beside L.M.D Police Station, Ramakrishna Colony, Thimmapur, Karimnagar  
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Department of Electrical and Electronics Engineering

Five-Day Faculty Development Program on

"Advances in Control and Its Application in Power Technology

(22/03/2022 to 26/03/2022)



Thimmapur, Telangana, India

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

Lat 18.350313°

Long 79.162663°

22/03/22 03:32 PM GMT +05:30

Google

GPS Map Camera

PayPal  
Center Of Excellence for  
**WOMEN**  
EMPOWERMENT

Principal

Vaageswari College of Engineering  
KARIMNAGAR-505 527.