



VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY
Accredited by NBA (B.Tech program), Approved by AICTE, Permanently Affiliated
to JNTUK, NAAC Accredited with 'A' Grade, ISO 9001:2015 Certified
Nambur (V), Pedakakani (M), Guntur (Dt.), Andhra Pradesh – 522 508,
www.vvitguntur.com

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

A report

on

one week on-line

Faculty Development Programme



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Duration:

19th February 2023 to 25th February 2023


Title:

EMERGING TRENDS IN ELECTRICAL VEHICLES



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Brochure:

<p>Eligibility Faculty members of Electrical Engineering and related emerging disciplines from AICTE approved Engineering Colleges, Research scholars, persons working in R & D organizations, Industry persons and PG students are invited to participate in this FDP. Number of participants is limited and it is based on first come first serve.</p> <p>Theme of the FDP The FDP focuses on recent innovations and technological developments in the emerging areas of electrical engineering to solve real-life problems occurring in different domains.</p> <p>Registration fee for Participants: Registration is FREE</p> <p>Registration Link: https://forms.gle/wacNeiUptexL.VFVUA</p> <p>Whatsapp Link: https://chat.whatsapp.com/G20clewOFWnDxPgPlhg2C</p> <p>Important Dates: Last date of registration: 15-02-2023</p> <p>Criteria to get Certificate: E- Certificates will be issued to the participants with minimum 80% of attendance and 60% score in test.</p>	<p>Organizing Committee:</p> <p>Chief Patron Sri VASIREDDY VIDYA SAGAR, Chairman</p> <p>Patrons Sri S. Badari Prasad, Secretary Sri M. Sree Krishna, Joint Secretary Dr. Y. Mallikarjuna Reddy, Principal Dr.A.V.Naresh Babu, HOD of EEE</p> <p>Advisors Dr. K. Giri Babu, Dean-Academics Dr. N. Kumara Swamy, Dean-Administration Dr. M.V.Raghuram, Dean-T&P</p> <p>Convener Dr. Luke John Baktha Singh Immaraju, Professor, Department of EEE</p> <p>Co-Conveners 1. Mr.B.Sreenivasa Raju Assistant Professor, Department of EEE 2. A.Sai Anusha Assistant Professor, Department of EEE</p> <p>Coordinators All the Faculty of EEE Dept.</p> <p>Address For Communication: Dr.Luke John Baktha Singh Immaraju, Professor, Department of EEE Convener, Vasireddy Venkatadri Institute of Technology, Nambur, Guntur, 522 508, Andhra Pradesh. Email: drimmaraju@gmail.com</p>	<p align="center">A One Week Faculty Development Programme (On-Line) on</p> <p align="center">“Electric Vehicles-Technological Advancements and Trends”</p> <p align="center">20th February to 25th February, 2023</p> <div align="center">  <p>VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY (Autonomous Institution)</p> <p>Organized by</p>  <p>Department of Electrical & Electronics Engineering</p> </div> <p>All UG Branches are accredited by NBA, NAAC accredited with 'A' Grade & Permanently Affiliated to JNTU Kakinada Nambur (V), Pedakakani (M), Guntur-522508 Andhra Pradesh www.vvitguntur.com</p>
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<p>About the College</p>  <p>Vasireddy Venkatadri Institute of Technology (VVIT) was established in the year 2007, under Social Educational Trust in Nambur village, Pedakakani mandal of Guntur district by Sri Vasireddy Vidya Sagar. VVIT has self-contained infrastructure located amidst the lush greenery of paddy and maize fields of Nambur located strategically between Guntur and Vijayawada, away from the hustle and bustle of the city life.</p> <p>VVIT is ISO 9001:2008 certified, NAAC Accredited with 'A' grade; All UG branches are Accredited by NBA and is permanently affiliated to JNTU Kakinada. In a short span of 15 years, with an annual intake capacity of 1620 students in B.Tech (CE, EEE, ME, ECE, CSE, IT, CSM, CSO, CIC, AIM and AID) and 72 students in M. Tech (CSE, VLSI&ES, PEED, MD, SE) programmes, today the institute has more than 6000 students, 345 teaching staff and 225 non-teaching staff striving to fulfill the vision of the Institute. VVIT has emerged as one of the top ten Engineering Colleges from the 200 Engineering Colleges affiliated to JNTU Kakinada. VVIT is an Official Skill Development center for APSSDC, and it is recognized as center of Excellence by Siemens in association with APSSDC.</p>	<p>About the Department of Electrical Engineering</p> <p>Electrical and Electronics Engineering department was established in the year 2007. Its graduates are serving the society since 2011 and have been making tremendous impact to the well being and development of the country. The department has been so structured, in terms of experienced staff and excellent laboratory facilities. The department is offering B. Tech with an intake of 180.</p> <p>The department is accredited by National Board of Accreditation for three years from 2017. The department provides ample opportunities to students to work on mini projects, develop communication skills, explore internship opportunities in industry and take active participation in national and international design contests. The faculty members of the department extend the guidance for research scholars to publish their work in the reputed indexed journals.</p> <p>Department Vision</p> <p>To nurture young and fresh minds into disciplined and globally competent technocrats with ethical values to excel in the arena of Electrical and Electronics Engineering leading to sustainable development of society.</p> <p>Objective of the FDP</p> <p>This training program will provide complete knowledge on battery tech which make EVs more affordable and accessible than petrol, diesel or gas cars thus boosting their demands. The rapid production technology will make EVs available for the masses by ensuring supply can keep up with rising demand.</p>	<p>Resource Persons & Topic</p> <ol style="list-style-type: none"> Dr.O.Chandra sekhar, Associate Professor & HOD, Dept of EEE, NIT , Delhi Control of electrical vehicles by special Electrical Motors Dr. K. Praveen Kumar, Assistant Professor, Dept of EEE, NIT, Suratkal Advanced Control Techniques for PMSM used in EVs Dr. C.Vyjayanthi, Associate Professor, NIT, Goa Cyber Security in Electrical Vehicles Dr.A.Immanuel, Professor, Dean of R&D, ASCET, Gudur. Emerging Trends in EV Motors, Batteries and Controllers Dr. Praveen Mannam, Electrical Engineering Trainer, Ministry of Education, Kingdom of Bahrain Electric Vehicles (EV's) and Microgrids Dr.S.Albert Alexander, Professor, VIT University, Vellore Power Electronic converters for the performance improvement in EV and BMS Dr.V.Raviprasad Naidu, Principal, Narayana Engineering College, Gudur Energy efficiency, Conservation and saving issues in EVs Dr.Y.Mallikarjuna Reddy, Principal, VVIT, Guntur Machine Learning in Electric Vehicles Dr.K.Giri Babu, Dean of Academics, VVIT, Guntur Deep Learning in Electric Vehicles Dr.Ch.V.Suresh, Professor&HOD, Dept of CSO,VVIT,Guntur Emerging Trends in Electrical Vehicles Dr.I.L.J.Baktha Singh, Professor, Dept of EEE, VVIT, Guntur Scope of Research in Electric Vehicles
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About the Department of Electrical Engineering



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The department is accredited by National Board of Accreditation for three years from 2017. The department provides ample opportunities to students to work on mini projects, develop communication skills, explore internship opportunities in industry and take active participation in national and international design contests. The faculty members of the department extend the guidance for research scholars to publish their work in the reputed indexed journals.

Department Vision

To nurture young and fresh minds into disciplined and globally competent technocrats with ethical values to excel in the arena of Electrical and Electronics Engineering leading to sustainable development of society.

Objective of the FDP

This training program will provide complete knowledge on battery tech which make EVs more affordable and accessible than petrol, diesel or gas cars thus boosting their demands. The rapid production technology will make EVs available for the masses by ensuring supply can keep up with rising demand.

Eligibility

Faculty members of Electrical Engineering and related emerging disciplines from AICTE approved Engineering Colleges, Research scholars, persons



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working in R & D organizations, Industry persons and PG students are invited to participate in this FDP. Number of participants is limited and it is based on first come first serve.

Theme of the FDP

The FDP focuses on recent innovations and technological developments in the emerging areas of electrical engineering to solve real-life problems occurring in different domains.

S.No.	Date	Session	Expert	Title of the content
1	20-02-2023	FN	Dr.O.Chandra sekhar Associate Prof & HOD/EEE NIT DELHI	Control of Electrical vehicles by special Electrical Motors
2	20-02-2023	AN	Dr.V.Ravi Prasad Naidu Principal, Narayana Engineering College , Gudur.	Energy efficiency, Conservation and saving issues in EVs
3	21-02-2023	FN	Dr. C. Vyjayanthi Associate Professor, National Institute of Technology Goa	Cyber Security in Electrical Vehicles
4	21-02-2023	AN	Dr.Y.Mallikarjuna Reddy, Principal, VVIT, Guntur	Machine Learning in Electric Vehicles
5	22-02-2023	FN	Dr. A. Immanuel Professor, Dean of R&D	Emerging Trends in EV Motors, Batteries and Controllers.
6	22-02-2023	AN	Dr. K. Praveen Kumar, Assistant Professor, Department of EEE, NIT , Surat	Advanced Control Techniques for PMSM used in EVs
7	23-02-2023	FN	Dr. S. Albert Alexander, Professor, VIT University, Chennai	Power Electronic converters for the performance improvement in EV and BMS



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8	23-02-2023	AN	Dr.Ch.V.Suresh, Professor & HOD, Department of CSO, VVIT, Guntur	Emerging trends in Electric vehicles
9	24-02-2023	FN	Dr Praveen Mannam Electrical Engineering Trainer, Ministry of Education, Kingdom of Bahrain.	Electric vehicles (EV's) and Microgrids
10	24-02-2023	AN	Dr. K. Giri Babu, Dean of Academics, VVIT, Guntur	CNNs for Self driving Cars
11	25-02-2023	FN	Dr.I.L.J.Baktha Singh, Professor, Department of EEE, VVIT, Guntur	Electric Vehicles- scope for research



VVIT VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY



Department of Electrical and Electronics Engineering

Organizing a one week on-line FACULTY DEVELOPMENT PROGRAM

Inaugural function on 20-02-2023 program sheet

1. 09:30 am - Welcome note by Anchor
2. 09:35 am - Prayer song
3. 09:40 am - Greetings by Dr. A. V. Naresh babu, HOD/EEE, VVIT
4. 09:45 am - Greetings by Dr. K. Giri Babu, Dean of Academics, VVIT
5. 09:50 am - Greetings by Dr. Y. Mallikarjuna Reddy, Principal, VVIT
6. 09:55 am - Greetings by Dr. O. Chandra Sekhar, HOD/EEE, NIT DELHI
7. 10:00 am - General instructions by convener FDP
8. 10:05 am - Session handover to Chief guest
9. 11:20 am - Discussions
10. 11:30am - End of first session

**ELECTRIC VEHICLES-TECHNOLOGICAL
ADVANCEMENTS AND TRENDS**



DR.O.CHANDRA SEKHAR

(Associate Professor & HOD, Dept of EEE, NIT , Delhi)

**TOPIC :CONTROL OF ELECTRICAL VEHICLES
BY SPECIAL ELECTRICAL MOTORS**

DATE : 20TH FEBRUARY 2023

FN - 09:30AM TO 11:30AM





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ELECTRIC VEHICLES-TECHNOLOGICAL

ADVANCEMENTS AND TRENDS



DR.DR.V.RAVIPRASAD NAIDU

(Principal, Narayana Engineering College, Gudur)

**TOPIC :ENERGY EFFICIENCY, CONSERVATION
AND SAVING ISSUES INEVS**

DATE : 20TH FEBRUARY 2023

AN - 01:30PM TO 03:30PM





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DR.Y.MALLIKARJUNA REDDY

(Principal, VVIT, Guntur)

**TOPIC :MACHINE LEARNING IN ELECTRIC
VEHICLES**

DATE : 21ST FEBRUARY 2023

AN - 01:30PM TO 03:30PM





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DR.C. VYJAYANTHI

(Associate Professor, National Institute Of Technology Goa)

**TOPIC :CYBER SECURITY IN ELECTRIC
VEHICLES**

DATE : 21ST FEBRUARY 2023

FN - 09:30AM TO 11:30AM





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DR.A.IMMANUEL

(Professor, Dean of R&D,ASCET, GUDUR)

**TOPIC :EMERGING TRENDS IN EV MOTORS,
BATTERIES AND CONTROLLERS**

DATE : 22ND FEBRUARY 2023

FN - 09:30AM TO 11:30AM





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ADVANCEMENTS AND TRENDS**



DR. K. PRAVEEN KUMAR

(ASSISTANT PROFESSOR, DEPT OF EEE, SVNIT, SURAT)

TOPIC : ADVANCED CONTROL TECHNIQUES

FOR PMSM USED IN EVS

DATE : 22ND FEBRUARY 2023

AN - 01:30PM TO 03:30PM





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FACULTY DEVELOPMENT PROGRAM - EEE DEPT

ELECTRIC VEHICLES-TECHNOLOGICAL

ADVANCEMENTS AND TRENDS



DR.S.ALBERT ALEXANDER

(PROFESSOR, VIT UNIVERSITY, VELLORE)

**TOPIC :POWER ELECTRONIC CONVERTERS FOR
THE PERFORMANCE IMPROVEMENT IN EV AND BMS**

DATE : 23RD FEBRUARY 2023

FN - 09:30AM TO 11:30AM





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ADVANCEMENTS AND TRENDS**



DR. CH. VENKATA SURESH

(HOD OF CSO, VVIT, GUNTUR)

**TOPIC : EMERGING TRENDS IN ELECTRICAL
VEHICLES**

DATE : 23RD FEBRUARY 2023

AN - 01:30PM TO 03:30PM





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**ELECTRIC VEHICLES-TECHNOLOGICAL
ADVANCEMENTS AND TRENDS**



DR. PRAVEEN MANNAM

(ELECTRICAL ENGINEERING TRAINER, MINISTRY OF EDUCATION, KINGDOM OF BAHRAIN)

**TOPIC :ELECTRIC VEHICLES (EV'S) AND
MICROGRIDS**

DATE : 24TH FEBRUARY 2023

FN - 09:30AM TO 11:30AM



FACULTY DEVELOPMENT PROGRAM - EEE DEPT

ELECTRIC VEHICLES-TECHNOLOGICAL

ADVANCEMENTS AND TRENDS



DR.K.GIRIBABU

(DEAN OF ACADEMICS, VVIT, GUNTUR)

**TOPIC : DEEP LEARNING IN AUTONOMOUS
VEHICLES**

DATE : 24TH FEBRUARY 2023

AN - 01:30PM TO 03:30PM



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Sessions links

S.No	Date	Session	Expert	Title of the content
1	20-02-2023	FN	Dr.O.Chandra sekhar Associate Prof & HOD/EEE NIT DELHI	Control of Electrical vehicles by special Electrical Motors Link: https://youtu.be/AkOe5rKDN68?si=uJsOdJLMbNFZXcBD
2	20-02-2023	AN	Dr.V.Ravi Prasad Naidu Principal, Narayana Engineering College, Gudur.	Energy efficiency, Conservation and saving issues in EVs Link: https://youtu.be/Rof_WpYHn6U?si=b60KgSnapNAiwS1b
3	21-02-2023	FN	Dr. C. Vyjayanthi Associate Professor, National Institute of Technology Goa	Cyber Security in Electrical Vehicles Link: https://youtu.be/ecqSUPdt8Hk?si=ZsZc-DYKGvxJSPr6
4	21-02-2023	AN	Dr.Y.Mallikarjuna Reddy, Principal, VVIT, Guntur	Machine Learning in Electric Vehicles Link: https://youtu.be/fLu2zplsscs?si=-AcxqYqoKKKjjEOF
5	22-02-2023	FN	Dr. A. Immanuel Professor, Dean of R&D	Emerging Trends in EV Motors, Batteries and Controllers. Link: https://youtu.be/6_KajWcDt3E?si=QV5w7BsjlOnHiM6h
6	22-02-2023	AN	Dr. K. Praveen Kumar, Assistant Professor, Department of EEE, NIT, Surat	Advanced Control Techniques for PMSM used in EVs Link: https://youtu.be/6pjiIR23jns?si=3flirFfM2xAxojCF

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7	23-02-2023	FN	Dr. S. Albert Alexander, Professor, VIT University, Chennai	Power Electronic converters for the performance improvement in EV and BMS Link: https://youtu.be/nNBUCyVXsEk?si=VNTf0v6_CicKIECj
8	23-02-2023	AN	Dr.Ch.V.Suresh, Professor & HOD, Department of CSO, VVIT, Guntur	Emerging trends in Electric vehicles Link: https://youtu.be/KSq9sbfM6ZU?si=ns0Dx2AcnDjziHfw
9	24-02-2023	FN	Dr Praveen Mannam Electrical Engineering Trainer, Ministry of Education, Kingdom of Bahrain.	Electric vehicles (EV's) and Microgrids Link: https://youtu.be/GgMRgQSz8BQ?si=tUfbcvOAn9YrqPM1
10	24-02-2023	AN	Dr. K. Giri Babu, Dean of Academics, VVIT, Guntur	CNNs for Self driving Cars Link: https://youtu.be/RJ38xqOqtCc?si=_BvD73NIRMtUXH3a
11	25-02-2023	FN	Dr.I.L.J.Baktha Singh, Professor, Department of EEE, VVIT, Guntur	Electric Vehicles- scope for research Link: https://youtu.be/ecqSUPdt8Hk?si=Ytf53iKnqqhjnNus

The following feedback was received from the participants:

1. 94% of the participants felt that the delivery and presentation of the resource person was good.
2. 98% of the participants were of the opinion that the FDP brought practical knowledge of the subject in them.
3. 90% of the participants felt that the FDP was coordinated very well. Participants felt that such FDP should be arranged regularly.

Prof. I.L.J. Baktha Singh (Convener-FDP)