VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY
(Autonomous)
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

AICTE Sponsored

A One Week Online STTP

Phase-I : 26th -31st October, 2020
Phase-II : 23rd to 28th November-2020
Phase-III: 14th to 19th December-2020

AICTE Sponsored
A One Week Online STTP
(Phase-I)

on

ROLE OF ELECTRIC VEHICLES IN SMART CITIES VISION OF INDIA: OPPORTUNITIES AND CHALLENGES

(26th -31st October, 2020)

Organised by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY
Department of EEE

REGISTRATION FORM

AICTE SPONSORED
A One Week Online STTP (Phase-1)
on
"Role of Electric Vehicles in Smart Cities Vision of India: Opportunities and Challenges"

- Name:
- Designation:
- Department:
- Organization:
- Address:
- Mobile No.:
- E-mail address:

Signature of the Candidate

Dr/Mr./Ms. ..... is a faculty/research scholar of our institution and is hereby permitted to attend A One Week Online STTP on **"Role of Electric Vehicles in Smart Cities Vision of India: Opportunities and Challenges"** at Vasireddy Venkatadri Institute of Technology, Nambur from 26th to 31st October 2020.

Place:

Date: HOD/Principal

Chief Patron

Sri Vasireddy Vidyasagar, *Chairman*

Patron

Sri S. Badari Prasad, *Secretary*

Sri M. Sree Krishna, *Joint Secretary*

Convener

Dr. Y. Mallikarjuna Reddy, *Principal*

Dr. K. Giri Babu, *Dean of Studies*

Coordinator

Dr. A. V. Naresh Babu,
Professor & Head, Dept. of EEE

Co-Coordinator

Mr. P. Nagarjuna,
Assistant Professor, Dept. of EEE

Organizing Committee

Dr. S. Ravindra, Professor
Dr. Ch. V. Suresh, Professor
Dr. D. Srilatha, *Associate Professor*
Mr. Sk. Rasululla, *Associate Professor*
Mr. Ch. Rambabu, *Associate Professor*
Mr. A. Hari Prasad, *Associate Professor*
Dr. P. Lakshman Naik, *Associate Professor*
Mr. I. L. J. Baktha Singh, *Associate Professor*
Mr. B. Srinivasa Raju, *Assistant Professor*
Mr. P. Mahamood Khan, *Assistant Professor*
Mr. K. Vasishta Kumar, *Assistant Professor*
Mr. A. Naveen Reddy, *Assistant Professor*
Mr. A. Rahiman, *Assistant Professor*
Mr. Ch. Naga Sai Kalyan, *Assistant Professor*
Mrs. A. Anusha, *Assistant Professor*
Mrs. T.Vasavi Prathyusha, *Assistant Professor*

All India Council for Technical Education

New Delhi

Sponsored
A One Week Online STTP (Phase-1)
on
"Role of Electric Vehicles in Smart Cities Vision of India: Opportunities and Challenges"
26th -31st October, 2020

Organized by
Department of EEE

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY
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Nambur, Guntur Dist.
Andhra Pradesh- 522 508
Ph: 0863-2293336. Fax: 0863-2293102
Website: www.vvitguntur.com

About the College

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 Vidyasagar. 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. In-house placement training team, absolute discipline, air-conditioned classrooms, multimodal teaching methodology, a 300 KW rooftop solar power plant to supply green power make VVIT a uniquely different professional college. VVIT has Google Code lab and recognized as Centre of Excellence (COE) by APSSDC. The college has Wi-Fi enabled internet with a bandwidth of 140 Mbps.

The institute is permanently affiliated to JNTU Kakinada, approved by AICTE and also an ISO 9001:2015 certified institution. *All the branches CSE, ECE, EEE, ME, Civil & IT are accredited by NBA. The institution is also accredited by NAAC with "A" grade.* The institute is offering 6 UG programmes in engineering and 5 PG programmes in M. Tech, with an intake of 1341 students every year.

About the Department

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 both B. Tech and M. Tech with an intake of 180 and 18 respectively. 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.

About the Programme:

Concerned over the climatic conditions and abnormal weather patterns, all the signatories of the Paris Agreement have pledged to reduce CO_2 emissions from their land and INDIA is one among them. Transportation sector is one of the biggest contributors to the greenhouse gases. Because of the technical advancements, the transportation sector has grown from fuel driven polluting vehicles to clean electric vehicles. E-mobility demands complete knowledge on converters, design and modeling of electric vehicles, vehicle to grid and grid to vehicles technology and different charging technologies. This training program will provide complete knowledge on e-mobility and electric vehicles which is necessary for realizing Smart Cities Vision of INDIA.

Topics of the STTP:

- Overview of Opportunities & Challenges of Electric Vehicles
- Electric Vehicles Pilot Projects in INDIA
- Different Models & Designs of EVs
- Charging Stations Infrastructure
- Different Charging Methods
- Vehicle2Grid and Grid2Vehicle etc....

Resource Persons:

The Senior and Eminent speakers from premier institutes like IIT's, NIT's and Industry will deliver the lectures.

Eligibility Criteria:

This programme is open to all AICTE approved Engineering college faculty, research scholars, and industry persons. Selection of participants will be on first-cum-first-serve basis.

Registration Fee & other Information:

There is no registration fee. The interested participants need to submit the online registration form through the link:

https://forms.office.com/Pages/ResponsePage.aspx?id=ChuY9hU5KEa-fjaBlkFfjxMeXFhb9NZKpBMQ-uktcXhUOEtRWlgxM1E0U1FQTldVTFk4WUxQSkRFTS4u.

Shortlisted participants will be informed through e-mail. A Test will be conducted at the end of the STTP. The certificate shall be issued to only those participants who attended the programme and qualified in the Test.

Important Dates

Submission of Online registration form :15-10-2020
Intimation of selection :19-10-2020

Address for Correspondence

Dr. A. V. Naresh Babu
Coordinator
Department of EEE
Vasireddy Venkatadri Institute of Technology
Namburu, Guntur Dist., A.P - 522508
Mobile: 9849509478,9676705997
e-mail: avnareshbabu@ieee.org

AICTE Sponsored
A One Week Online STTP
(Phase-II)

RECENT TRENDS IN POWER ELECTRONICS & IOT APPLICATIONS FOR ELECTRIC VEHICLES

(23rd to 28th November-2020)

Organised by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY

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Nambur (V), Pedakakani (M), Guntur (Dt.), Andhra Pradesh – 522 508, www.vvitguntur.com

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The strong teaching staff comprises well qualified professionals with varied experience. The faculty members take interest in continuing education and are actively engaged in research work and publish their findings regularly in reputed national and international journals.

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Patron

Sri S. Badari Prasad, *Secretary*

Sri M. Sree Krishna, *Joint Secretary*

Convener

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Dr. N. Kumara Swamy, *Dean of Academics*

Dr. K. Giri Babu, *Dean of Studies*

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Mr. P. Mahamood Khan, *Assistant Professor*

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Mr. A. Naveen Reddy, *Assistant Professor*

Mr. A. Rahiman, *Assistant Professor*

Mr. Ch. Naga Sai Kalyan, *Assistant Professor*

Mrs. A. Anusha, *Assistant Professor*

Mrs. T.Vasavi Prathyusha, *Assistant Professor*

All India Council for Technical Education

New Delhi

Sponsored

A One Week Online STTP (Phase-2)

on

"Recent Trends in Power Electronics and IoT Applications for Electric Vehicles"

23rd -28th November, 2020

Organized by

Department of EEE

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY

Accredited by NBA & NAAC with "A" Grade

Nambur, Guntur Dist.
Andhra Pradesh- 522 508
Ph: 0863-2293336. Fax: 0863-2293102
Website: www.vvitguntur.com

About the Department

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 both B. Tech and M. Tech with an intake of 180 and 18 respectively.

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.

About the Programme:

Concerned over the climatic conditions and abnormal weather patterns, all the signatories of the Paris Agreement have pledged to reduce CO_2 emissions from their land and INDIA is one among them. Transportation sector is one of the biggest contributors to the greenhouse gases. Because of the technical advancements, the transportation sector has grown from fuel driven polluting vehicles to clean electric vehicles. E-mobility demands complete knowledge on design aspects of converters, key concepts of IoT, electric vehicles SCADA panels and EV Control concepts using IoT.

This training program will provide complete knowledge on e-mobility and electric vehicles which is necessary for realizing Smart Cities Vision of INDIA.

Topics of the STTP:

- Design Aspects of PE Converters for EVs
- Smart Charging Structures of EVs
- EV Transmission Configurations
- Over View and Key Concepts of IoT
- Electric Vehicles SCADA Panels
- Intelligent Energy Systems for EVs
- IoT Solutions for EV Control etc....

Resource Persons:

The Senior and Eminent speakers from premier institutes like IIT's, NIT's and Industry will deliver the lectures.

Eligibility Criteria:

This programme is open to all AICTE approved Engineering college faculty, research scholars, and industry persons. Selection of participants will be on first-cum-first-serve basis.

Registration Fee & other Information:

There is no registration fee. The interested participants need to submit the online registration form through the link:

https://forms.office.com/Pages/ResponsePage.aspx?id=ChuY9hU5KEa-fjaBlkPfjxMeXFhb9NZKpBMQ-uletcXhUMFdKVVRYNVpYWDJPM0M1WkpLUVhGQ1NPQS4u

Shortlisted participants will be informed through e-mail. An online Test will be conducted at the end of the STTP. The e-certificate shall be issued to the participants who have minimum 80% attendance and 60% marks in the Test.

Important Dates

Submission of Online registration form :14-11-2020
Intimation of selection :16-11-2020

Address for Correspondence

Dr. A. V. Naresh Babu
Coordinator
Department of EEE
Vasireddy Venkatadri Institute of Technology
Namburu, Guntur Dist., A.P - 522508
Mobile: 9849509478,9676705997
e-mail: avnareshbabu@ieee.org

AICTE Sponsored

A One Week Online STTP

(Phase-III)

ELECTRIC VEHICLES: A GREEN APPROACH FOR SUSTAINABLE DEVELOPMENT OF TRANSPORTATION IN INDIA

(14th to 19th December-2020)

Organised by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY

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Mr. K. Vasishta Kumar, *Assistant Professor*

Mr. A. Naveen Reddy, *Assistant Professor*

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Mrs. A. Anusha, *Assistant Professor*

Mrs. T.Vasavi Prathyusha, *Assistant Professor*

All India Council for Technical Education

New Delhi

Sponsored

A One Week Online STTP (Phase-3)

on

"Electric Vehicles: A Green Approach for Sustainable Development of Transportation in India"

14th -19th December, 2020

Organized by

Department of EEE

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY

Accredited by NBA & NAAC with "A" Grade

Nambur, Guntur Dist.
Andhra Pradesh- 522 508
Ph: 0863-2293336. Fax: 0863-2293102
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About the Department

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About the Programme:

Concerned over the climatic conditions and abnormal weather patterns, all the signatories of the Paris Agreement have pledged to reduce CO_2 emissions from their land and INDIA is one among them. Transportation sector is one of the biggest contributors to the greenhouse gases. Because of the technical advancements, the transportation sector has grown from fuel driven polluting vehicles to clean electric vehicles. E-mobility demands complete knowledge on Vehicle Dynamics, Motor Drive Technologies, EVs Operation Modes, Integration & Impact in Micro/Smart Grids.

This training program will provide complete knowledge on e-mobility and electric vehicles which is necessary for realizing Smart Cities Vision of INDIA.

Topics of the STTP:

- Vehicle Dynamics
- Motor Drive Technologies
- Electric Vehicles Operation Modes
- Driving Cycles & Range
- EVs Integration with RES
- EVs Impact in Micro/Smart Grids
- Hybrid Electric Vehicles etc....

ELECTRIC VEHICLES
IN INDIA FOR
GREEN ENERGY

Resource Persons:

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Eligibility Criteria:

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Shortlisted participants will be informed through e-mail. An online Test will be conducted at the end of the STTP. The e-certificate shall be issued to the participants who have minimum 80% attendance and 60% marks in the Test.

Important Dates

Submission of Online registration form : 7-12-2020
Intimation of selection : 10-12-2020

Address for Correspondence

Dr. A. V. Naresh Babu
Coordinator
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Vasireddy Venkatadri Institute of Technology
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Mobile: 9849509478, 9676705997
E-mail: avnareshbabu@iece.org

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Department of Electrical and Electronics EngineeringReport of STTP

A one week STTP was successfully conducted in the Vasireddy Venkatadri Institute of Technology in virtual mode with three phases, phase-I from 26th -31st October, 2020 and phase -II from 23rd to 28th November-2020 and phase -III from 14th to 19th December-2020 by the department of EEE. The STTP received an overwhelming response with 114 participants in phase-I and 76 participants in phase -II and 52 participants in phase-III from various institutions.

About the Programme:

Concerned over the climatic conditions and abnormal weather patterns, all the signatories of the Paris Agreement have pledged to reduce CO2 emissions from their land and INDIA is one among them. Transportation sector is one of the biggest contributors to the greenhouse gases. Because of the technical advancements, the transportation sector has grown from fuel driven polluting vehicles to clean electric vehicles. E-mobility demands complete knowledge on converters, design and modeling of electric vehicles, vehicle to grid and grid to vehicles technology and different charging technologies. This training program will provide complete knowledge on e-mobility and electric vehicles which is necessary for realizing Smart Cities Vision of INDIA.

Topics Covered in the STTP:

- Overview of Opportunities & Challenges of Electric Vehicles
- Electric Vehicles Pilot Projects in INDIA
- Different Models & Designs of EVs
- Charging Stations Infrastructure
- Different Charging Methods
- Vehicle2Grid and Grid2Vehicle etc….

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

STTP (PHSAE-I) Programme Details:

Date	Fore Noon Session (10am-12pm)	After Noon Session (2pm- 4pm)
Day 1 **26 th October, 2020**	**Session-1** Inauguration and Key note session Prof. D.M.Vinod Kumar NIT,Warangal	**Session-2** Best Practices for Research &Research Areas of EV Dr Y V Pavan Kumar VIT,AP
Day 2 **27 th October, 2020**	**Session-3** Role of AI in Energy storage and energy management system of EV Dr D Koteswara Raju NIT,Silchar	**Session-4** Classical modeling and Control of DC-DC converters for EV Application Dr Y V Pavan Kumar VIT, AP
Day 3 **28 th October, 2020**	**Session-5** Policies & Implementation Plans of EVs in INDIA Dr Charan Teja S IIT,Hyderabad,	**Session-6** Scheduling of EV Charging in a SmartEnergy Park Dr Y Pradeep Kumar IIT, Hyderabad
Day 4 **29 th October, 2020**	**Session-7** EVs as Ancillary Services for Utility Grid Dr Charan Teja S IIT,Hyderabad,	**Session-8** Topic Dr P Shankar NIT, AP
Day 5 **30 th October, 2020**	**Session-9** High Power Factor Converters for EV Applications Dr Naveen Yalla NIT, Tiruchirapalli	**Session-10** Role of Power Electronics in EV & Charging Infrastructure ConfigurationsDr Jaya Sai Praneeth A V Delphi Technologies, Luxembourg, Europe
Day 6 **31 st October, 2020**	**Session-11** Topic Dr T Narsa Reddy IIT, Mandi	**Session-12** Test and Valedictory Prof. S.Siva Naga Raju JNTUK

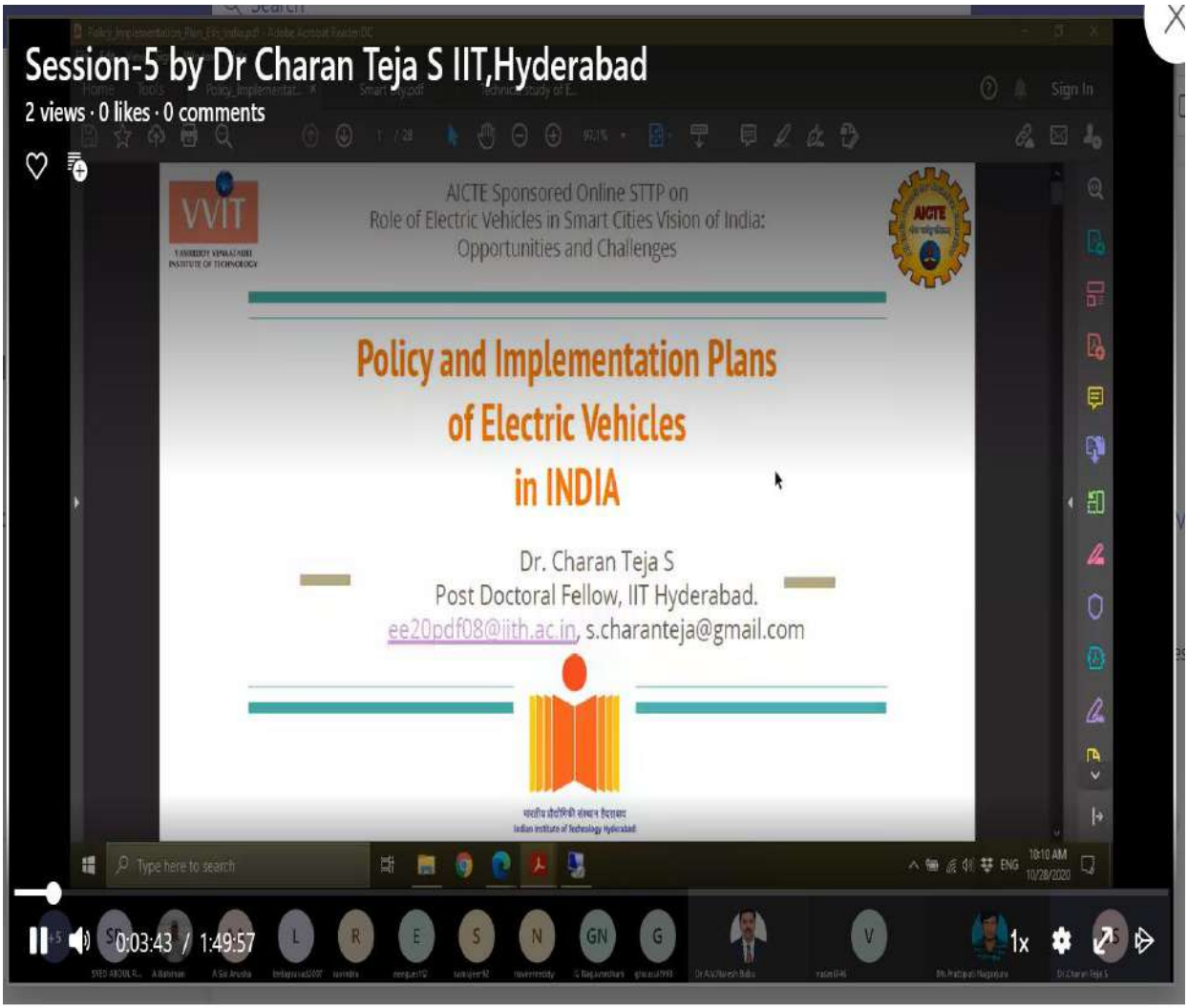

Fig: Lecture by Dr. Charan Teja S , IIT Hyderabad

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

STTP (PHSAE-II) Programme Details:

Date	Fore Noon Session (10am-12pm)	After Noon Session (2pm- 4pm)
Day 1 23 rd November, 2020	**Session-1** Inauguration and Key note session Dr. Y. Pradeep Kumar IIT, Hyderabad	**Session-2** Applications of Multi- Phase Drives in EV's Dr Mohana Kishore PIIT, Hyderabad
Day 2 24 th November, 2020	**Session-3** Role of EV's and micro grids in enhancing the Distribution systemresiliency Dr. Sanjeev Pannala Washington State University, WA, USA	**Session-4** EV and its sub systemsDr Ritesh Kumar KeshriVNIT, Nagpur
Day 3 25 th November, 2020	**Session-5** IoT and its applications for Smart energy Dr D Koteswara Raju NIT,Silchar	**Session-6** Overview & Key Concepts of IoTDr Charan Teja S IIT, Hyderabad
Day 4 26 th November, 2020	**Session-7** Multi- level inverter based sensorless PMSM Drive For EV Application Dr Tejavathu RameshNIT, AP	**Session-8** Evolutionary algorithms & their applications in power electronics,renewable energy systems & EV's Dr Aeidapu MaheshSVNIT, Surat
Day 5 27 th November, 2020	**Session-9** IoT Applications for control of EV's Dr Charan Teja SIIT, Hyderabad	**Session-10** Recent controls for MLI configurations Dr J Venkataramanaiah SVNIT, Surat
Day 6 28 th November, 2020	**Session-11** Development of Multi- functional IED for Distribution Systems Dr Gurunath GurralaIISc, Bangalore	**Session-12** Test and Valedictory

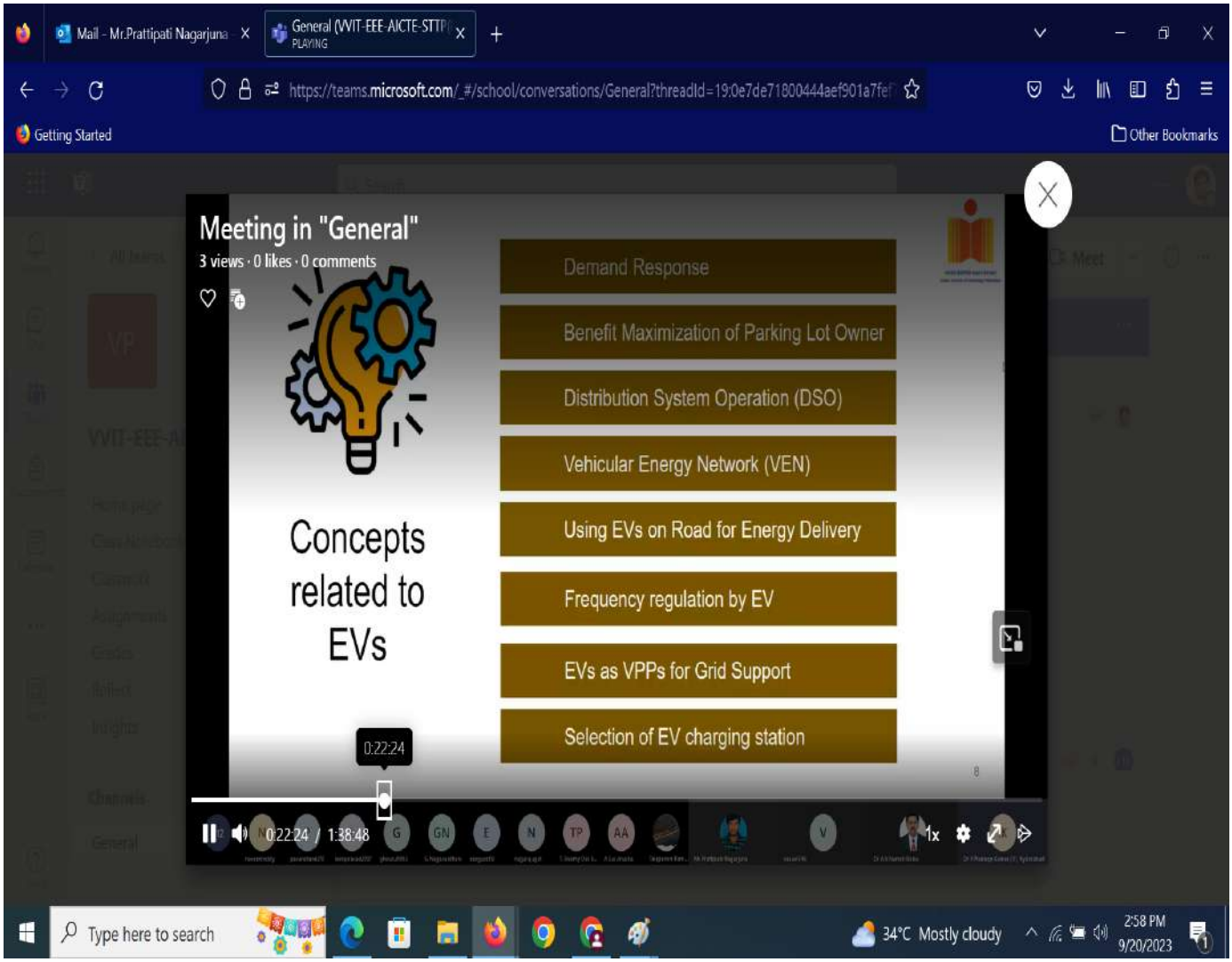

Fig: Lecture by Dr.Y.Pradeep Kumar, IIT Hyderabad

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

STTP (PHSAE-III) Programme Details:

Date	Fore Noon Session (10am-12pm)	After Noon Session (2pm- 4pm)
Day 1 14th December, 2020	**Session-1** Inauguration and Key note sessionDr. T. Narsa Reddy IIT, Mandi	**Session-2** Applications of Electric Motor Drives for Electric Vehicles. Dr. T. Vinay Kumar NIT,Warangal
Day 2 15th December, 2020	**Session-3** Multi Level Inverters for EV ApplicationsDr. O. Chandra Sekhar NIT, Srinagar	**Session-4** Advanced Control Schemes for Induction Motor Drives Dr. K. Praveen KumarSVNIT, Surat
Day 3 16th December, 2020	**Session-5** Multiphase Powertrain Configurationsfor Electrical Vehicles Dr. B Prathap Reddy Qatar University, Qatar	**Session-6** Impact of Electric Vehicles on UtilityGrid Dr Charan Teja SIIT, Hyderabad
Day 4 17th December, 2020	**Session-7** IOT-based Intelligent Management of Electric Vehicles Dr D Koteswara Raju NIT,Silchar	**Session-8** Power Converter Challenges and Opportunities for future Electric VehicleDr Mohana Kishore P IIT, Hyderabad
Day 5 18th December, 2020	**Session-9** Electrical Vehicles in Smart GridsDr. C. Vyjayanthi NIT,Goa	**Session-10** Non isolated DC-DC Converters for EV Applications Dr. P. Sankar NIT, Andhra Pradesh
Day 6 19th December, 2020	**Session-11** PM BLDC Motor Drive and its Control for Light Electric Vehicles Dr Ritesh Kumar KeshriVNIT, Nagpur	**Session-12** Test and Valedictory

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

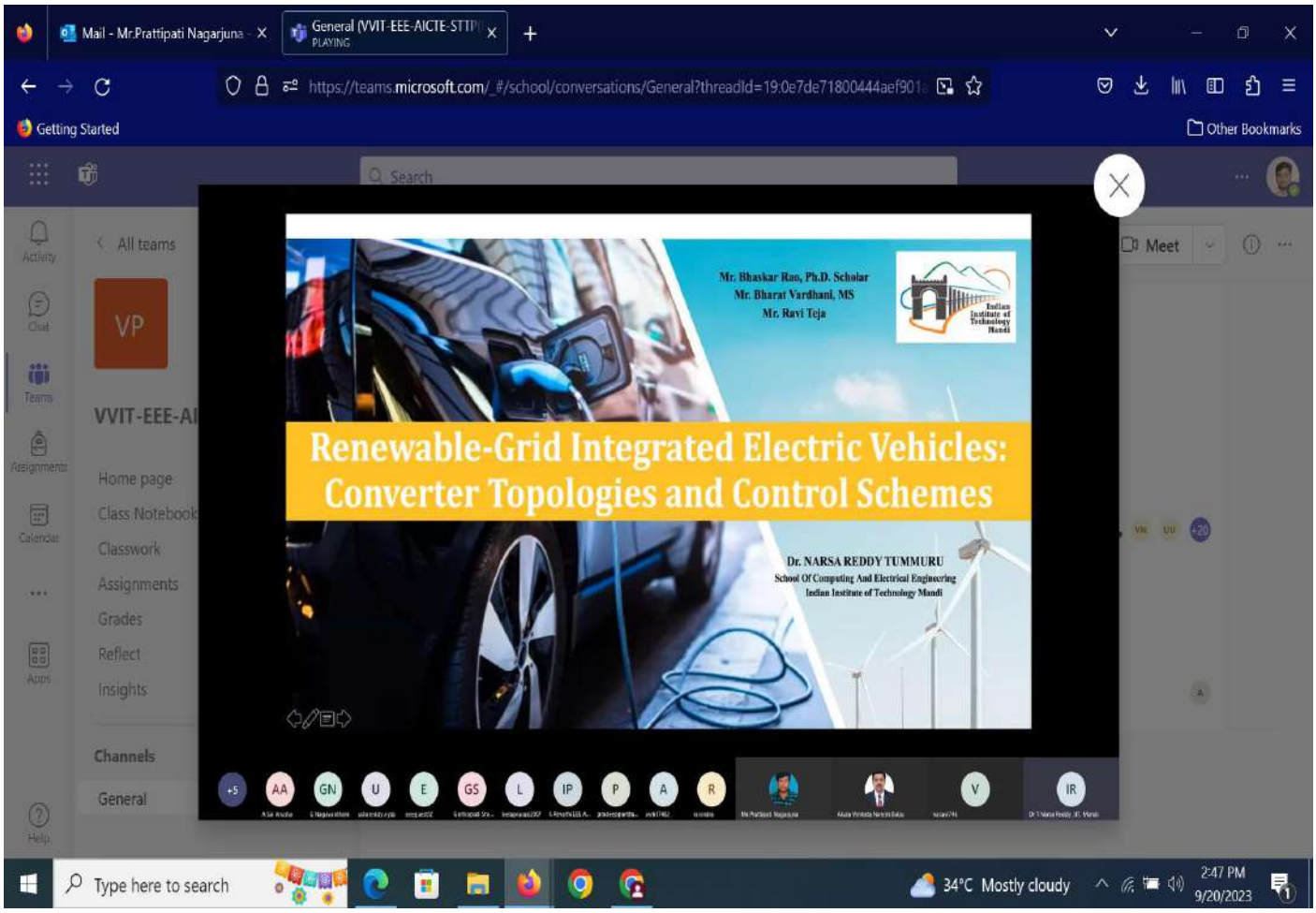

Fig: Lecture by Dr.T.Narsa Reddy, IIT Mandi

The following feedback was received from the participants:

1. 80% of the participants felt that the delivery and presentation of the resource person was good.

2. 85% of the participants were of the opinion that the STTP brought practicalknowledge of the subject in them.

3. 90% of the participants felt that the STTP was coordinated very well.Participants felt that such STTP should be arranged regularly.

Prof. A.V.Naresh Babu

(Coordinator-STTP)