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Department of Electrical Engineering

Academic Year 2022-23

FDP on "Research Scope in Electric vehicles"

| | To enlighten faculty with following scopes of research in electric vehicles: |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| | I. Electric Vehicle Technology Basics and standards. |
| Objective | 2. Research scope in EV Power Quality studies. |
| | 3. EV modelling - simulation and hardware implementation. |
| | 4. Battery Management System for EVs. |
| | 5. HIL testing Battery Management System controller using OPALRT. |
| | 6. Electric Drives for EVs |
| | 7. Issues and Research scope in EVs with respect to industrial perspectives. |
| | 8. Issues and challenges in the Induction motor design procedure for electric vehicle |
| | and it's mitigation. |
| | 9. EV hardware demo and Research Scope |
| | 10. Hands on Practices Design and Development of Electric Drives for Electric |
| | Vehicles. |
| Organizer | Department of Electrical Engineering |
| | SVKM's Institute of Technology, Dhule |
| Participating Class & | |
| Division | Faculty from various colleges. |
| Date | 05/12/2022 to 09/12/2022 (One Week) |
| Time | 9:30 AM to 4:00 PM |
| Venue | |
| v enue | Online – Microsoft Teams in Computer Lab (Room No. 414, Department of Electrical Engineering, SVKM's IOT, Dhule). |
| Coordinator/s | Mr. Sandeep Ushkewar |
| | Organizing Team: Mr. Gaurav Patil, Dr. Namra Joshi, Mr. Jagdish More, Ms. Farha |
| | Naz, Mr. T. N. Shubham, Mr. Shahid Akhtar, Mr. Ankush Kumar Mudholker, Mr. |
| | Rahul Thakur, Mr. Jayesh Patil, Mr. Pankaj Bhavsar. |
| Name of Speaker | 1. Dr. Shimi S.L, Assistant Professor, NITTTR Chandigarh |
| with Designation | 2. Dr. Ravi Teja, Assistant Professor, IIT Ropar |
| 0 | 3. Dr. Pavitra Sukhla (Ph.D (IIT Delhi)), R&D Engineer, Caterpillar, India |
| | 4. Dr. Tatiano Busatto, System Engineer at Unjo AB, Sweden |
| | 5. Sai Teja, Application Engineer, OPAL-RT Technologies, Bangalore |
| | 6. Khusro Khan, Manager, ABB, India |
| | Mr Kartikesh Kumar Jha, Application Engineer, ARK Infosolutions Pvt. Ltd. |
| | 8. Ajay Godara, Director, Enovation Lab, LLP, Chandigarh |
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SHRI VILE PARLE KELAVANI MANDAL'S Institute of Technology, Dhule

Approved by AICTE New Delhi | Affilated to DBATU, Lonere

Department of Electrical Engineering

| | DAVE | was conducted in bel Live Session - 1 9.30 AM to 11. 00 AM (IST) | Live Session - 2 11.30 AM to 1.00 P (IST) | Live Session - 3 2.30 PM to 4.00 PM (IST) |
|------------------------------|-------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Brief report on | Monday 05/12/2022 | Electric Vehicle Technology Basics and standards (SSL) | Research scope in EV Power Quality studies (SSL) | EV modelling - simulation and hardware implementation (AG) |
| activity | Tuesday 06/12/2022 | Battery Management System for EVs (PS) | HIL testing Battery Management Syster controller using OPA RT (ST) | n Electric Drives for EVs |
| | Wednesday 07/12/2022 | Issues and Research scope in EVs with respect to industrial perspectives (TB) | Issues and challenges in Induction motor des procedure for electr vehicle and it's mitige (KK) | ign EV hardware demo and ric Research Scope |
| | Thursday 08/12/2022 | Hands on Practices Do Ve | esign and Development hicles (ARK / Ansys Ex | of Electric Drives for Electric spert / SSL) |
| | Friday 09/12/2022 | Electric Drives for | esign and Development Electric Vehicles (ARK Expert / SSL) | of Valediction, Feedback and Quiz (SSL) |
| Duration of Program | One Week | r | | |
| Total No. of participants | 50 | b | | |
| Sandard | | Dr. Vishal Moya | | Dr. Nilesh Salunke |
| Mr. Sandeep Ushkev | | | | Dr. Miesh Salunke |

- 1. Details of the Event
- 2. Event poster

Attached:-

- 3. Event Memories/Pictures
- 4. List of Participants
- 5. Sample Certificate

1. Details of the Event

Name of Program: FDP on "Research Scope in Electric vehicles".

Objectives: To enlighten faculty with following scopes of research in electric vehicles:

- 1. Electric Vehicle Technology Basics and standards.
- 2. Research scope in EV Power Quality studies.
- 3. EV modelling simulation and hardware implementation.
- 4. Battery Management System for EVs.
- 5. HIL testing Battery Management System controller using OPALRT.
- 6. Electric Drives for EVs
- 7. Issues and Research scope in EVs with respect to industrial perspectives.
- 8. Issues and challenges in the Induction motor design procedure for electric vehicle and it's mitigation.
- 9. EV hardware demo and Research Scope
- 10. Hands on Practices Design and Development of Electric Drives for Electric Vehicles.

Dates and duration: 05/12/2022 to 09/12/2022 (One Week)

Event Coordinator: Mr. Sandeep Ushkewar

Convener: Dr. Vishal Moyal.

Patron: Dr. Nilesh Salunke

Organizing Team: Mr. Gaurav Patil, Dr. Namra Joshi, Mr. Jagdish More, Ms. Farha Naz, Mr. T. N. Shubham, Mr. Shahid Akhtar, Mr. Ankush Kumar Mudholker, Mr. Rahul Thakur, Mr. Jayesh Patil, Mr. Pankaj Bhavsar.

Participants: Faculty from all Engineering branches of SVKM's IOT, Dhule

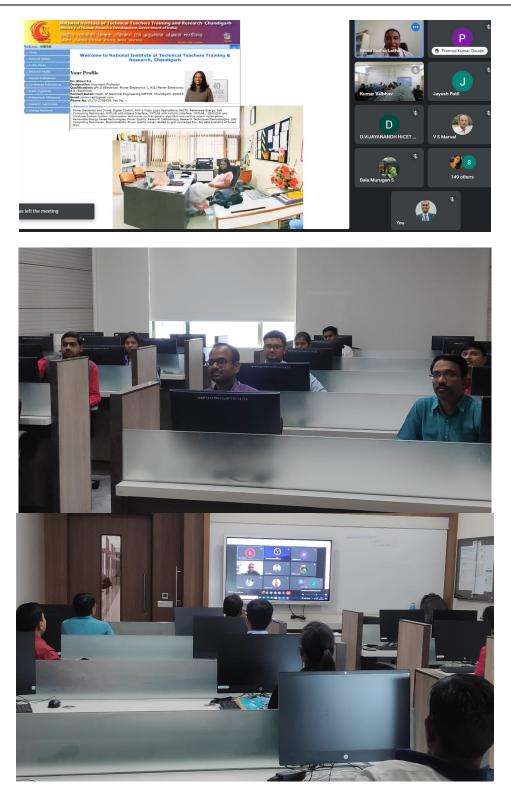
Name and details of the speakers:

- 1. Dr. Shimi S.L, Assistant Professor, NITTTR Chandigarh
- 2. Dr. Ravi Teja, Assistant Professor, IIT Ropar
- 3. Dr. Pavitra Sukhla (Ph.D (IIT Delhi)), R&D Engineer, Caterpillar, India
- 4. Dr. Tatiano Busatto, System Engineer at Unjo AB, Sweden
- 5. Sai Teja, Application Engineer, OPAL-RT Technologies, Bangalore
- 6. Khusro Khan, Manager, ABB, India
- 7. Mr Kartikesh Kumar Jha, Application Engineer, ARK Infosolutions Pvt. Ltd.
- 8. Ajay Godara, Director, Enovation Lab, LLP, Chandigarh

2. Event Poster



3. Event Memories/ Pictures



4. List of Participants

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| Kink Value of the horidonia Material of the horidonia | Name Dates: Venue Local (Suppor | Name of the Course: Research Scope in Electric Vehicles (In colaboration with ANSYS) Dates: 265.12.2022 to 09.12.2022 Venue (Nodal Centre) : SVKM's Institute of Technology.Dhule Maharashtra Local Course Coortingt : MrJaycah Prail Supporting Staff: MrJaycah Prail | ule Maharashtra | | | | | | | | | | | | | | |
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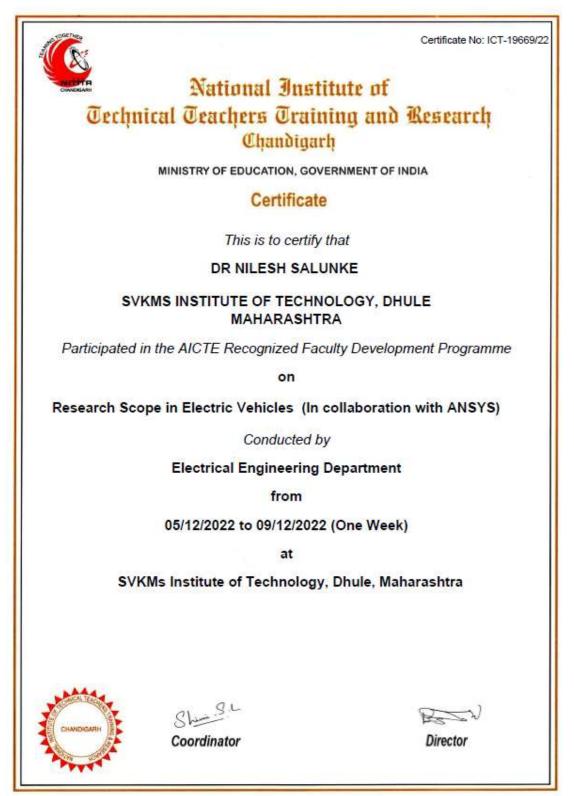
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Name of the Course: Research Scope in Electric Vehicles (In colaboration with ANSYS) Dates: 051,122202 009,112,2022 Venue (Nodal Centre) : SVKMS Institute of Technology,Dhule Maharashtra Local Course Coordinator : Mr.Sandeep Ushkewar

| | | | | 5/12/2022 | | 9 | 6/12/2022 | | | 7/12/2022 | | 8 | 8/12/2022 | | 6 | 9/12/2022 | |
|---------|------------------------------------------|----------------------------------------------|-----------------------|--------------------|-------------------|-----------------------|-----------|-------------------|-----------------------|--------------------|-------------------|-----------|--------------------|-------------------|---------------------------------------|--------------------|-------------------|
| Sr. No. | Name of the Participant | Name of the Institute | 09.30 am- 11.00 am | 11.30am- 1.00pm | 2.30pm- 4.00pm | 09.30 am- 11.00 am | 11.30am- | 2.30pm- 4.00pm | 09.30 am- 11.00 am | 11.30am- 1.00pm | 2.30pm- 4.00pm | 09.30 am- | 11.30am- 1.00pm | 2.30pm- 4.00pm | 09.30 am- 1 11.00 am | 11.30am- 1.00pm | 2.30pm- 4.00pm |
| 26 | MADHURI VISHNU PATIL | SVKM's Institute of Technology, Dhule | - m | - | T | THE | - HEW | 唐 | - THE | Marth 1 | ANT - | MAT | Alat - | 1 All | ALA. | - Aller | All I |
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| 28 | MAKARAND SHAHADE | SVKM's Institute of Technology, Dhule | Sille | 1in | 110 | Fill | Jul I | 18 | 112 | 111 | Tip | Fin | 1121 | 115 | Mil | 11h | Fri-ha |
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| 30 | PANKAJ NAVANITLAL BHAVSAR | SVKM's Institute of Technology, Dhule | Pange | Pary | Aunt | Beue | Paul | Bur | fam | fer | Pear | Bur | Bur | Run | part | Bear | paul |
| 31 | PRADEEP DAGADU SURWADE | SVKM's Institute of Technology, Dhule | No. | des de | ACH. | S | C.A | dia | Con Con | el. | did | S. | Pest. | | - | Re | đ |
| 32 | PRANJALI PRAKASH CHAUDHARI | Nikam Institute of Tech. (Polytechnic) Dhule | 4.1 | d.P | at | af | 4.7 | 2 | af | a | 2 | ad | at | ef | C.b. | 2 | 2 |
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| 34 | PRERANA RAMDAS IKHAR | SVKM's Institute of Technology, Dhule | - tong | friend | in | - Sale | - Land | Ì | - Mang | in the | 這 | - Tage | 道 | - Tag | 1.1 | - STA | and a |
| 35 | RAHUL MANOHAR THAKUR | SVKM's Institute of Technology, Dhule | | 5 | 2) | 2 | a | 2 | R | 0 | 2 | 2 | 0 | Q | Ø | 0 | 0 |
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| 37 | SACHIN DILIP NERKAR | SVKM's Institute of Technology, Dhule | NO N | i | Carl | i | 12 | SK | Si a | S.Y. | tes | - Jus | i | 1 | CAA | 8 | Ye |
| 38 | SAMADHAN KHANDU RAJPUT | SVKM's Institute of Technology, Dhule | Start | refin | Seles | Staffe | steller. | Magas | topas | Supply Steps | Ster | Velde | SAPLY. | YEEK | S.P.T. | X-BAY | EB- |
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| 41 | SHAKEELUR RAHEMAN ATEEQUR RAHEMAN SVKM's | SVKM's Institute of Technology, Dhule | And | MM | m | Aux | DUR | Ant | BUR | Nul | And | And | Shart | Mall | AND | What | Nal |
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| 43 | SNEHA KESHAV PAWAR | Gangamai College of Engineering, Nagaon | 8.5 | X | 48 | t | f s | to | FS | 18 | × | 16 | Fr | Fd | 5-5 | F6. | t S |
| 44 | SNEHA PATIL | SVKM's Institute of Technology, Dhule | Hant | Hot | And | Hat | Hoak | Hang | Thed | Fort | Apath, | Hat . | And !! | Ant - | Fret - | (Jeet | Cont i |
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| 47 | THAKARE HITESH RAVINDRA | SVKM's Institute of Technology, Dhule | H | with | 11/ | H | H | L | TH | M | MA | H | WH | May | hu , | fat | Mr |
| 48 | VIJAY BUCHANNA USHKEWAR | Government Polytechnic, Nanded | J. Gent | S. Sel | Thomas 7 | T.Sour | King? J | was.t | Jun 1 | Frit | Ang. J | F Sew | till t | ton. | F P-1 | No. | that 1 |
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5. Sample Certificates



Certificate of in college participant.

Certificate No: ICT-19636/22

National Institute of

Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

VIJAY BUCHANNA USHKEWAR

GOVERNMENT POLYTECHNIC, NANDED MAHARASHTRA

Participated in the AICTE Recognized Faculty Development Programme

on

Research Scope in Electric Vehicles (In collaboration with ANSYS)

Conducted by

Electrical Engineering Department

from

05/12/2022 to 09/12/2022 (One Week)

at

SVKMs Institute of Technology, Dhule, Maharashtra

CHANDISARD

Shini S.L

Coordinator

Director

Certificate of other college participant.