**Jaipur Engineering College and Research Centre, Jaipur.**

**Department of Electrical Engineering, Electronics and Communication Engineering and Mechanical Engineering**

**In Association with MG Motors.**

**Two Days Workshop**

**on**

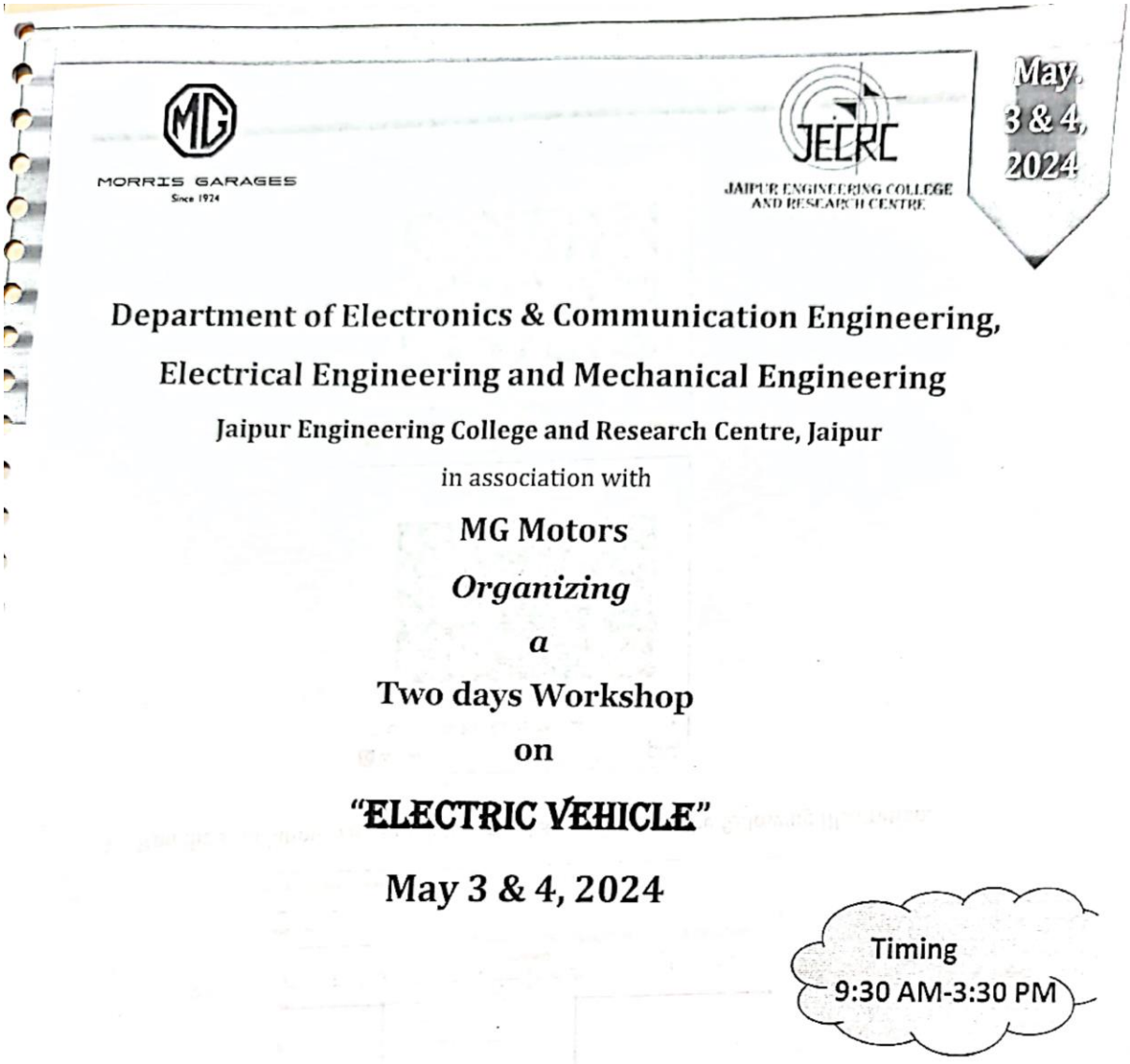
**Electric Vehicle**

**3rd May, 2024 and 4th May,2024**

Head of the Department
Electronics & Communication Engineering
JECRC, Jaipur

Head of the Department
Electrical Engineering
JECRC Jaipur

**Head of the Department**
**Mechanical Engineering**
**JECRC, Jaipur**



MORRIS GARAGES
Since 1924

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

May, 3 & 4, 2024

**Department of Electronics & Communication Engineering,**

**Electrical Engineering and Mechanical Engineering**

**Jaipur Engineering College and Research Centre, Jaipur**

in association with

**MG Motors**

***Organizing***

***a***

**Two days Workshop**

**on**

**"ELECTRIC VEHICLE"**

**May 3 & 4, 2024**

Timing
9:30 AM-3:30 PM

Event Coordinator
Dr. Sandeep Vyas , HOD ECE
Mr. L.Senthil, Assistant Professor , EE

Student Co-Ordinator
Mr. ANSHUL VERMA (II year , EE Dept.)
Mr. KUNAL AGARWAL (II year , EE Dept.)
Mr. AKASH SHARMA (II year , ME Dept.)

**Jaipur Engineering College and Research Centre, Jaipur**

**Shri Ram ki Nangal via RIICO, Tonk Rd, Sitapura, Jaipur, Rajasthan 302022**

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## Details of Students

| S. No. | RTU Roll No | Student Name | Year/Semester |
|---|---|---|---|
| 1 | 23EJCEC001 | ABHINAV GUPTA | II/IV |
| 2 | 23EJCEC002 | ABHINAV SHARMA | II/IV |
| 3 | 23EJCEC003 | ADITYA SHARMA | II/IV |
| 4 | 23EJCEC004 | AJAY MEENA | II/IV |
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| 28 | 23EJCEC029 | CHINMAY PALIWAL | II/IV |
| 29 | 23EJCEC030 | DHARMENDRA SHARMA | II/IV |
| 30 | 23EJCEC031 | DHARMENDRA THAKUR | II/IV |
| 31 | 23EJCEC032 | DHRUV KUMAR YADAV | II/IV |
| 32 | 23EJCEC033 | DIKSHA GYAMLANI | II/IV |
| 33 | 23EJCEC034 | DIVY SANGVHI | II/IV |
| 34 | 23EJCEC035 | DIVYANSH SINGH RAGHAV | II/IV |
| 35 | 23EJCEC036 | GAURAV AGARWAL | II/IV |
| 36 | 23EJCEC037 | GEETESH LASHKARI | II/IV |
| 37 | 23EJCEC038 | HARDIK DAMANI | II/IV |
| 38 | 23EJCEC039 | HARSH MALAKAR | II/IV |
| 39 | 23EJCEC040 | HARSH SHARMA | II/IV |
| 40 | 23EJCEC041 | HARSHIT SONI | II/IV |
| 41 | 23EJCEC042 | HARSHITA | II/IV |
| 42 | 23EJCEC043 | HITESH VYAS | II/IV |
| 43 | 23EJCEC044 | HRISHIKESH | II/IV |
| 44 | 23EJCEC045 | ISHITA MAYATWAL | II/IV |
| 45 | 23EJCEC046 | JHANVI KUMAWAT | II/IV |

| | | | |
|---|---|---|---|
| 46 | 23EJCEC047 | KAMAL KUMAR | II/IV |
| 47 | 23EJCEC048 | KARAN SHARMA | II/IV |
| 48 | 23EJCEC049 | KARTIKAY TAUNK | II/IV |
| 49 | 23EJCEC050 | KASIF KHAN | II/IV |
| 50 | 23EJCEC051 | KESHAV KHANDELWAL | II/IV |
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| 52 | 23EJCEC054 | KOMAL AGRAWAL | II/IV |
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| 59 | 23EJCEC062 | MANU KHANDELWAL | II/IV |
| 60 | 23EJCEC063 | MANURAJ BARMAN | II/IV |
| 61 | 23EJCEC064 | MANVI JAIN | II/IV |
| 62 | 23EJCEC065 | MAYANK JAIN | II/IV |
| 63 | 23EJCEC066 | MIHIR MEWARA | II/IV |
| 64 | 23EJCEC067 | MOHAMMED ABID | II/IV |
| 65 | 23EJCEC068 | MOHIT CHOUDHARY | II/IV |
| 66 | 23EJCEC070 | MOHIT SINGH RATHORE | II/IV |
| 67 | 23EJCEC071 | MUKUL CHOUHAN | II/IV |
| 68 | 23EJCEC072 | NISHCHAY SHARMA | II/IV |
| 69 | 23EJCEC073 | NISHKARSH VAISHNAV | II/IV |
| 70 | 23EJCEC074 | PAAWAN DUBEY | II/IV |
| 71 | 23EJCEC075 | PARIDHI BHARDWAJ | II/IV |
| 72 | 23EJCEC076 | PARTH SARTHI SAXENA | II/IV |
| 73 | 23EJCEC077 | PIYUSH KHANDELWAL | II/IV |
| 74 | 23EJCEC078 | PRIYA YADAV | II/IV |
| 75 | 23EJCEC079 | PRIYANSHU | II/IV |
| 76 | 23EJCEC080 | PUSHPENDRA CHAUHAN | II/IV |
| 77 | 23EJCEC081 | RAGHAV SHARMA | II/IV |
| 78 | 23EJCEC082 | RAHUL SHARMA | II/IV |
| 79 | 23EJCEC083 | RAJANI | II/IV |
| 80 | 23EJCEC084 | RAJVARDHAN SHEKHAWAT | II/IV |
| 81 | 23EJCEC085 | RAJVEER SINGH | II/IV |
| 82 | 23EJCEC086 | RAKESH SHARMA | II/IV |
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| 84 | 23EJCEC088 | ROHIT SINGH | II/IV |
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| 90 | 23EJCEC094 | SHREYANSH TIWARI | II/IV |

## Course Content

**Day 1: Fundamentals and Key Components**

**Duration: 4 Hours**

1. **Session 1: Introduction to Electric Vehicles (1 Hour)**
    - Evolution of electric vehicles.
    - Advantages of EVs over internal combustion engine (ICE) vehicles.
    - Overview of global EV trends and market opportunities.
2. **Session 2: EV Powertrain and Architecture (1 Hour)**
    - Key components: Battery, motor, inverter, and control systems.
    - Types of powertrain architectures: Series, parallel, and hybrid configurations.
    - Energy flow in EV systems.
3. **Session 3: Battery Systems (1 Hour)**
    - Fundamentals of battery technology: Lithium-ion, solid-state, and alternatives.
    - Key parameters: Capacity, energy density, SoC (State of Charge), and DoD (Depth of Discharge).
    - Basics of charging systems and infrastructure.
4. **Session 4: Electric Motors for EVs (1 Hour)**
    - Types of motors: BLDC, PMSM, and induction motors.
    - Motor selection criteria based on vehicle application.
    - Efficiency and performance characteristics.

**Day 2: Design, Simulation, and Applications**

**Duration: 4 Hours**

1. **Session 1: Power Electronics and Control Systems (1 Hour)**
    - Overview of inverters and DC-DC converters.
    - Introduction to PWM (Pulse Width Modulation) and control strategies.
    - Importance of energy management in EVs.
2. **Session 2: EV Performance Analysis (1 Hour)**
    - Drive cycles: WLTP, NEDC, and EPA.
    - Key performance metrics: Range, energy efficiency, and acceleration.
    - Introduction to regenerative braking systems.
3. **Session 3: Hands-On Simulations Using MATLAB Simulink (2 Hours)**
    - Introduction to MATLAB Simulink for EV design:
        - Setting up the Simulink environment.
        - Using predefined blocks for EV systems.
    - Hands-on activity:
        - Building a basic EV model (battery, motor, and inverter).
        - Simulating a vehicle over a standard drive cycle.
    - Analyzing results: Energy consumption, range estimation, and system performance.

## MOM of Department

Jaipur Engineering College & Research Centre
(Shri Ram ki Nangal, via Sitapura RIICO, Tonk Road, Jaipur, Rajasthan 302022)

**Department of Electrical Engineering**

Noting Reference No.JECRC/02/2023-24/ 01/05/2024

**Minutes of Meeting**

**Venue: BLG 08**

**Date & Time:** May 01, 2024 & 11:30 AM

**Chaired by:**
Dr. M.P. Singh
Dr. Sandeep Vyas
Dr. Prerak Bhardwaj

**Attended By:**
1. Ms. Ritambhara Parashar
2. Mr. Devendra Sharma
3. Dr. Manoj Gupta
4. Ms. Sonali Chadha
5. Dr. Pooja Sharma
6. Dr. Vikram Singh
7. Mr. L.Senthil

Meeting started at 11:30 AM; following were the discussions –

1. Notice for commencement of Two Days Workshop on Electric Vehicle will be displayed on notice board.
2. Dr. Sandeep Vyas and Mr. L. Senthil will be the event coordinators.
3. Event coordinators are required to share the information to students.
4. All the facilities will be prepared before the commencement of course.

Meeting ended after thanks giving by the chair.

HOD ECE HOD EE HOD ME

## Proposal/Approval Letter

| JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE | Jaipur Engineering college and research centre, Shri Ram ki Nangal, via Sitapura RIICO Jaipur- 302 022. | **Academic year- 2023 - 2024** |
|---|---|---|

Date: 01-05-2024

| From: EE Department, JECRC. | To : PRINCIPAL OFFICE |
|---|---|

**Note Sheet**

Subject: Seeking approval for Two Days Workshop on Electric Vehicle

Respected sir

I am writing this letter to seek approval for Two days workshop on "Electric Vehicle" for Second year Students.

Workshop on Electric Vehicles is being organized to provide an introduction to EV technology, focusing on fundamentals like batteries, motors, and power electronics. Participants will learn about powertrain architectures, energy management, and performance analysis. The workshop includes hands-on sessions using MATLAB Simulink to simulate EV systems and analyse results.

Hereby I am enclosing details of the course.

Anticipating in advance for your kind favour.

Name of the Company: MG Motors.

Course Fee: Nil

Faculty Coordinator: 1.Dr. Sandeep Vyas, HOD ECE

2.Mr. L.Senthil (Asst,Professor EE Dept.)( Mob.No: 8952934577)

Student Coordinator: 1. Mr. ANSHUL VERMA (II year , EE Dept.)

2. Mr. KUNAL AGARWAL (II year , EE Dept.)

3. Mr. AKASH SHARMA (II year , ME Dept.)

HOD ECE HOD EE HOD ME

## Notice

Jaipur Engineering College & Research Centre
(Shri Ram ki Nangal, via Sitapura RIICO, Tonk Road, Jaipur, Rajasthan 302022)

Noting Reference No.JECRC/02/2023-24/ 01/05/2024

**Department of Electrical Engineering, Electronics and Communication Engineering and Mechanical Engineering**

**Notice**

The Departments of ECE, EE and ME in association with MG motors are organizing a Two Days Workshop on "Electrical Vehicle" for Second year students. This Workshop is designed to introduce essential concepts and techniques for Electric Vehicle (EV) and providing hands-on experience in simulation and modeling.

Details of training Program:

Duration: 2 Days

Date: 03 and 04 - 05 -2024

Timing: 9:30 Am to 3:30 Pm

Venue: BLG 08.

Fees: Nil

Faculty Coordinator: 1.Dr. Sandeep Vyas, HOD ECE

2.Mr. L.Senthil (Asst,Professor EE Dept.)( Mob.No: 8952934577)

Student Coordinator:1. Mr. ANSHUL VERMA (II year , EE Dept.)

2. Mr. KUNAL AGARWAL (II year , EE Dept.)

3. Mr. AKASH SHARMA (II year , ME Dept.)

HOD ECE HOD EE HOD ME

CC To:

1.Principal.

2.Dy.Director (Special Project).

3.All Faculty Members and CC's.

4.Department Notice Board.

**Report**

## Workshop Overview

This intensive two-day workshop focuses on providing participants with a comprehensive introduction to electric vehicles (EVs), their components, and basic design principles. The workshop combines theoretical knowledge with hands-on sessions to ensure that participants gain practical experience in EV modeling and simulation. By the end of the workshop, attendees will have foundational insights into EV systems and their design challenges.

## Workshop Objectives

Participants will:

1. Gain an understanding of the fundamentals of electric vehicles and their components.
2. Learn about key technologies such as batteries, motors, and power electronics.
3. Get an introduction to EV design tools and techniques.
4. Perform basic simulations and analyses of EV performance.

## Target Audience

This workshop is designed for:

- Engineering students and professionals interested in EV technology.

## Workshop Schedule

**Day 1: Fundamentals and Key Components**

**Duration: 4 Hours**

5. **Session 1: Introduction to Electric Vehicles (1 Hour)**
    - Evolution of electric vehicles.
    - Advantages of EVs over internal combustion engine (ICE) vehicles.
    - Overview of global EV trends and market opportunities.
6. **Session 2: EV Powertrain and Architecture (1 Hour)**
    - Key components: Battery, motor, inverter, and control systems.
    - Types of powertrain architectures: Series, parallel, and hybrid configurations.
    - Energy flow in EV systems.
7. **Session 3: Battery Systems (1 Hour)**
    - Fundamentals of battery technology: Lithium-ion, solid-state, and alternatives.
    - Key parameters: Capacity, energy density, SoC (State of Charge), and DoD (Depth of Discharge).
    - Basics of charging systems and infrastructure.
8. **Session 4: Electric Motors for EVs (1 Hour)**
    - Types of motors: BLDC, PMSM, and induction motors.

- Motor selection criteria based on vehicle application.
- Efficiency and performance characteristics.

**Day 2: Design, Simulation, and Applications**

**Duration: 4 Hours**

4. **Session 1: Power Electronics and Control Systems (1 Hour)**
   - Overview of inverters and DC-DC converters.
   - Introduction to PWM (Pulse Width Modulation) and control strategies.
   - Importance of energy management in EVs.
5. **Session 2: EV Performance Analysis (1 Hour)**
   - Drive cycles: WLTP, NEDC, and EPA.
   - Key performance metrics: Range, energy efficiency, and acceleration.
   - Introduction to regenerative braking systems.
6. **Session 3: Hands-On Simulations Using MATLAB Simulink (2 Hours)**
   - Introduction to MATLAB Simulink for EV design:
     - Setting up the Simulink environment.
     - Using predefined blocks for EV systems.
   - Hands-on activity:
     - Building a basic EV model (battery, motor, and inverter).
     - Simulating a vehicle over a standard drive cycle.
   - Analyzing results: Energy consumption, range estimation, and system performance.

## Learning Outcomes

By the end of the workshop, participants will be able to:

1. Explain the fundamental concepts of EV systems and their components.
2. Identify and evaluate the roles of batteries, motors, and power electronics in EVs.
3. Use MATLAB Simulink for basic EV modeling and simulation tasks.
4. Analyze the performance of an EV under different driving conditions.

## Deliverables

1. **Workshop Materials:**
   - Presentation slides covering theoretical concepts.
   - MATLAB Simulink models created during the workshop.
2. **Hands-On Outputs:**
   - A functional EV model built in MATLAB Simulink.
   - Simulation results and performance analysis reports.
3. **Certificates:**
   - Certificate of participation for all attendees.

## Workshop Requirements

- **For Participants:**
  - Basic understanding of electrical engineering concepts.
  - A laptop with MATLAB Simulink pre-installed.
- **For Organizers:**
  - Venue with projector and adequate seating.
  - Internet access for any required software activation or updates.

## Feedback and Future Scope

- **Feedback:**
  - Participants provided positive feedback on the mix of theory and practical sessions.
  - Suggestions included more time for advanced simulation and detailed motor modeling.
- **Future Scope:**
  - Organizing advanced workshops focusing on topics like thermal management, real-time simulations, and Hardware-in-the-Loop (HIL) testing.
  - Extending the workshop to include EV control strategies using AI.

## Conclusion

The two-day workshop on Electric Vehicle Design successfully provided participants with a strong foundation in EV systems and hands-on experience using MATLAB Simulink. The structured sessions ensured a balance between theoretical learning and practical application, enabling attendees to apply their knowledge in academic or professional projects. Further workshops focusing on advanced topics can build on this foundational program to cater to evolving industry needs.

## Sample Feedback

**Jaipur Engineering College and Research Centre**
**Department of Electrical Engineering**
**Session 2023-2024**

**Students Feedback Form**

**Name of the Course: Two day Workshop on Electrical Vehicle**

**Time Duration: 03-05-2024 and 04-05-2024**

**Note:** Your responses are important and will be used to improve future training methods.

| S.NO | Question | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 1. | Relevance of course content | | | | ✓ |
| 2. | Delivery Method Used | | | | ✓ |
| 3. | Workshop Materials and Workshop aids | | | ✓ | |
| 4. | Facilitators knowledge of the subject matter | | | | ✓ |
| 5. | Facilitators preparedness and presentation skills | | | | ✓ |
| 6. | Illustrations, examples and practice sessions | | | ✓ | |
| 7. | Knowledge gained during workshop | | | | ✓ |
| 8. | How this workshop met my expectations | | | ✓ | |

6. What did you **like best** about this workshop?
The industry level knowledge it delivered.
7. What did you **like least** about this workshop?
The workshop could've been for more duration.
8. Please state things you would want to see improved in future workshops
Workshop could provide hands on experience on E.V.
9. Please mention other areas of trainings that you would like to have
IOT & Embedded Systems

Name : Devansh Ladha
Roll No: 22EJCEE011
Signature:

**Jaipur Engineering College and Research Centre**
**Department of Electrical Engineering**
**Session 2023-2024**

**Students Feedback Form**

**Name of the Course: Two day Workshop on Electrical Vehicle**

**Time Duration: 03-05-2024 and 04-05-2024**

**Note:** Your responses are important and will be used to improve future training methods.

| S.NO | Question | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 1. | Relevance of course content | | | ✓ | |
| 2. | Delivery Method Used | | | ✓ | |
| 3. | Workshop Materials and Workshop aids | | | | ✓ |
| 4. | Facilitators knowledge of the subject matter | | | | ✓ |
| 5. | Facilitators preparedness and presentation skills | | | | ✓ |
| 6. | Illustrations, examples and practice sessions | | | ✓ | |
| 7. | Knowledge gained during workshop | | | ✓ | |
| 8. | How this workshop met my expectations | | | ✓ | |

6. What did you **like best** about this workshop?
Facilators preparedness and presentation skills.

7. What did you **like least** about this workshop?
Timing of Workshop

8. Please state things you would want to see improved in future workshops
This workshop could have been more week.

9. Please mention other areas of trainings that you would like to have
Circuit design & Electrical machine.

Name : Kamlesh Singh
Roll No: 22EJCEE016
Signature: Kamlesh

**Jaipur Engineering College and Research Centre**
**Department of Electrical Engineering**
**Session 2023-2024**

**Students Feedback Form**

**Name of the Course: Two day Workshop on Electrical Vehicle**

**Time Duration: 03-05-2024 and 04-05-2024**

**Note:** Your responses are important and will be used to improve future training methods.

| S.NO | Question | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 1. | Relevance of course content | | | | ✓ |
| 2. | Delivery Method Used | | | ✓ | |
| 3. | Workshop Materials and Workshop aids | | | | ✓ |
| 4. | Facilitators knowledge of the subject matter | | | | ✓ |
| 5. | Facilitators preparedness and presentation skills | | | | ✓ |
| 6. | Illustrations, examples and practice sessions | | | ✓ | |
| 7. | Knowledge gained during workshop | | | | ✓ |
| 8. | How this workshop met my expectations | | | | ✓ |

6. What did you **like best** about this workshop?
The professional - grade industry insights it delivered
7. What did you **like least** about this workshop?
The workshop could have been for more duration
8. Please state things you would want to see improved in future workshops
Workshop could provide hands on experience on EV
9. Please mention other areas of trainings that you would like to have
IOT & Embedded System

Name : Vikas Kumar Soni
Roll No: 22EJCEE035
Signature:

**Jaipur Engineering College and Research Centre**
**Department of Electrical Engineering**
**Session 2023-2024**

**Students Feedback Form**

**Name of the Course: Two day Workshop on Electrical Vehicle**

**Time Duration: 03-05-2024 and 04-05-2024**

**Note:** Your responses are important and will be used to improve future training methods.

| S.NO | Question | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 1. | Relevance of course content | | | | ✓ |
| 2. | Delivery Method Used | | | | ✓ |
| 3. | Workshop Materials and Workshop aids | | | ✓ | |
| 4. | Facilitators knowledge of the subject matter | | | | ✓ |
| 5. | Facilitators preparedness and presentation skills | | | | ✓ |
| 6. | Illustrations, examples and practice sessions | | | ✓ | |
| 7. | Knowledge gained during workshop | | | | ✓ |
| 8. | How this workshop met my expectations | | | | ✓ |

6. What did you **like best** about this workshop?
Learning about cutting - edge E.V. technology

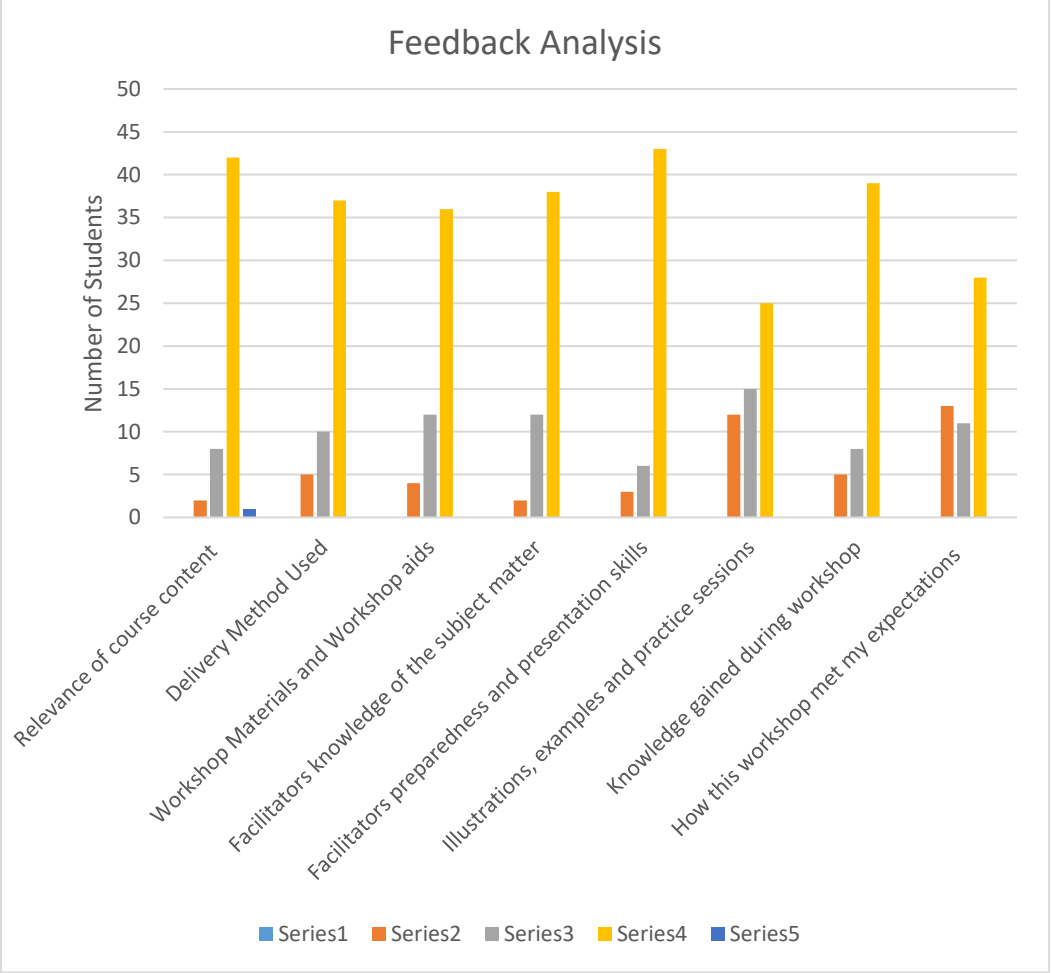
7. What did you **like least** about this workshop?
Lack of Hand - on Experience

8. Please state things you would want to see improved in future workshops
up to date technology

9. Please mention other areas of trainings that you would like to have
E.V. Software programming

Name : Shubham Khandelwal
Roll No: EE - 29 (22EJcEE029)
Signature: Shubham

# Feedback Analysis



# Action Taken

| S.No. | Name | Feedback analysis | Action taken |
|---|---|---|---|
| 1 | Two Days Workshop on ELECTRIC VEHICLE | Feedback on the Electric Vehicle course indicates that while it provides a good overview of the fundamentals of electric vehicle design, more attention should be paid to practical MATLAB simulations and case studies that are pertinent to the industry. Students' competence and preparedness for real-world EV design applications would be improved by adding more hands-on assignments and sophisticated simulation approaches. | Improved course with more practical MATLAB simulation tasks and EV design projects linked to the industry. In the newly introduced courses and workshops, advanced simulation techniques were used to provide students with hands-on experience, enhancing their preparedness for Electric Vehicle applications in real-world scenarios. |

# Attendance

| S. No. | RTU Roll No | Student Name | Year/Semester | 03-05-2024 | 04-05-2024 |
|---|---|---|---|---|---|
| 1 | 23EJCEC001 | ABHINAV GUPTA | II/IV | P | P |
| 2 | 23EJCEC002 | ABHINAV SHARMA | II/IV | P | P |
| 3 | 23EJCEC003 | ADITYA SHARMA | II/IV | P | P |
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| 23 | 23EJCEC024 | AYUSH SHARMA | II/IV | P | P |
| 24 | 23EJCEC025 | BHAKTI JAISWAL | II/IV | P | P |
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| 27 | 23EJCEC028 | CHETAN JAIN | II/IV | P | P |
| 28 | 23EJCEC029 | CHINMAY PALIWAL | II/IV | P | P |
| 29 | 23EJCEC030 | DHARMENDRA SHARMA | II/IV | P | P |
| 30 | 23EJCEC031 | DHARMENDRA THAKUR | II/IV | P | P |
| 31 | 23EJCEC032 | DHRUV KUMAR YADAV | II/IV | P | P |
| 32 | 23EJCEC033 | DIKSHA GYAMLANI | II/IV | P | P |
| 33 | 23EJCEC034 | DIVY SANGVHI | II/IV | P | P |
| 34 | 23EJCEC035 | DIVYANSH SINGH RAGHAV | II/IV | P | P |
| 35 | 23EJCEC036 | GAURAV AGARWAL | II/IV | P | P |
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| 37 | 23EJCEC038 | HARDIK DAMANI | II/IV | P | P |
| 38 | 23EJCEC039 | HARSH MALAKAR | II/IV | P | P |
| 39 | 23EJCEC040 | HARSH SHARMA | II/IV | P | P |
| 40 | 23EJCEC041 | HARSHIT SONI | II/IV | P | P |
| 41 | 23EJCEC042 | HARSHITA | II/IV | P | P |
| 42 | 23EJCEC043 | HITESH VYAS | II/IV | P | P |
| 43 | 23EJCEC044 | HRISHIKESH | II/IV | P | P |
| 44 | 23EJCEC045 | ISHITA MAYATWAL | II/IV | P | P |
| 45 | 23EJCEC046 | JHANVI KUMAWAT | II/IV | P | P |
| 46 | 23EJCEC047 | KAMAL KUMAR | II/IV | P | P |
| 47 | 23EJCEC048 | KARAN SHARMA | II/IV | P | P |
| 48 | 23EJCEC049 | KARTIKAY TAUNK | II/IV | P | P |
| 49 | 23EJCEC050 | KASIF KHAN | II/IV | P | P |
| 50 | 23EJCEC051 | KESHAV KHANDELWAL | II/IV | P | P |
| 51 | 23EJCEC052 | KHUSHAL TIWADI | II/IV | P | P |
| 52 | 23EJCEC054 | KOMAL AGRAWAL | II/IV | P | P |
| 53 | 23EJCEC055 | KRATIKA GARG | II/IV | P | P |
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| 86 | 23EJCEC090 | SARTHAK JHA | II/IV | P | P |
| 87 | 23EJCEC091 | SHAHID KHAN | II/IV | P | P |
| 88 | 23EJCEC092 | SHOURYA SHEKHAWAT | II/IV | P | P |
| 89 | 23EJCEC093 | SHREEYANSHI GUPTA | II/IV | P | P |
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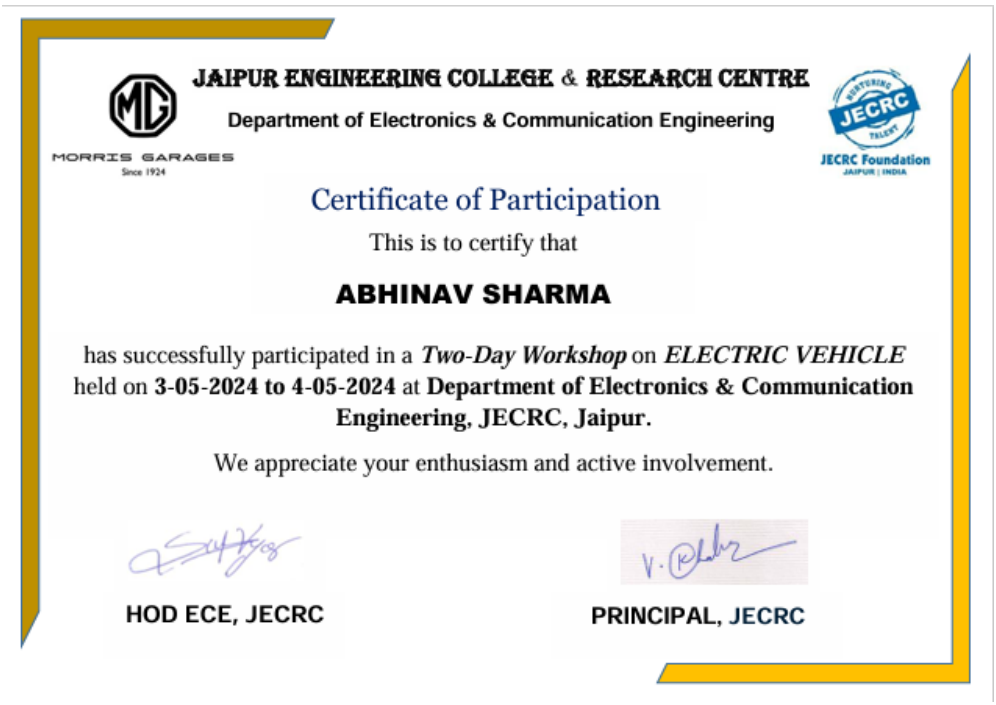

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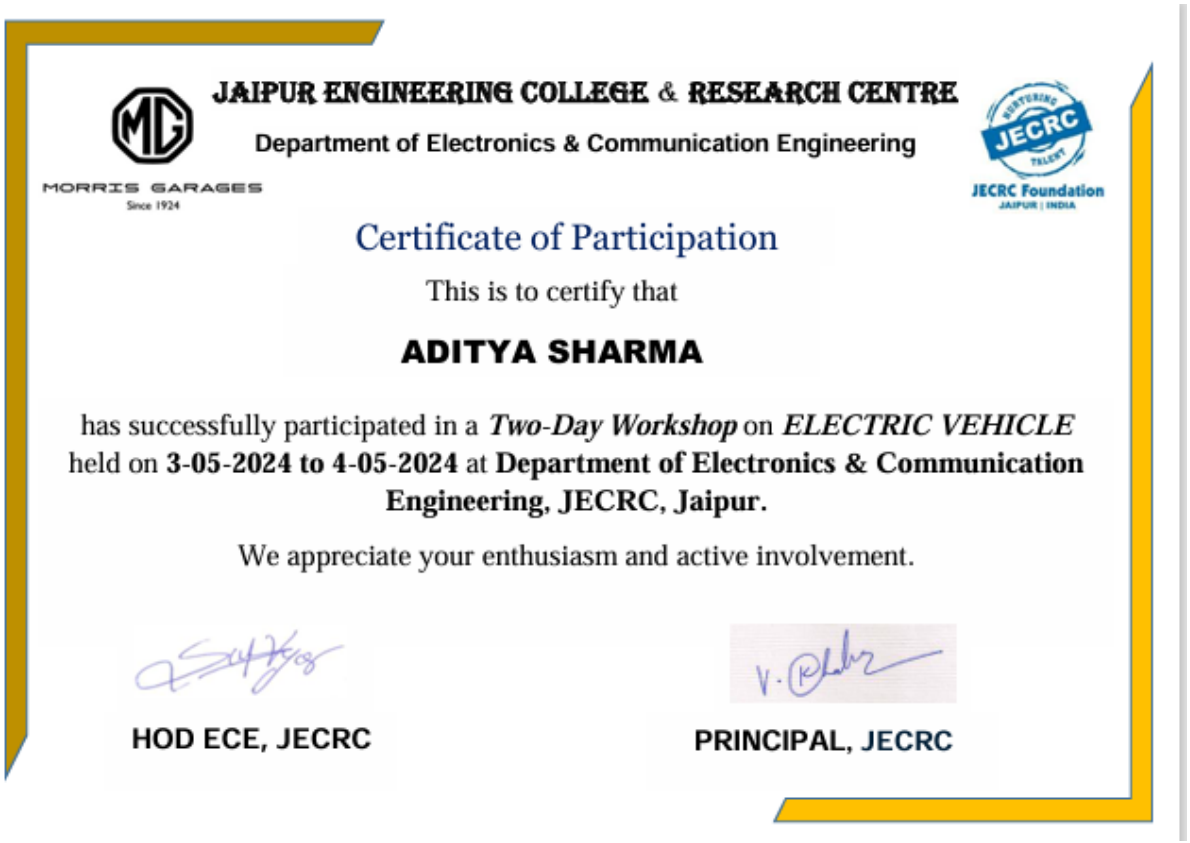

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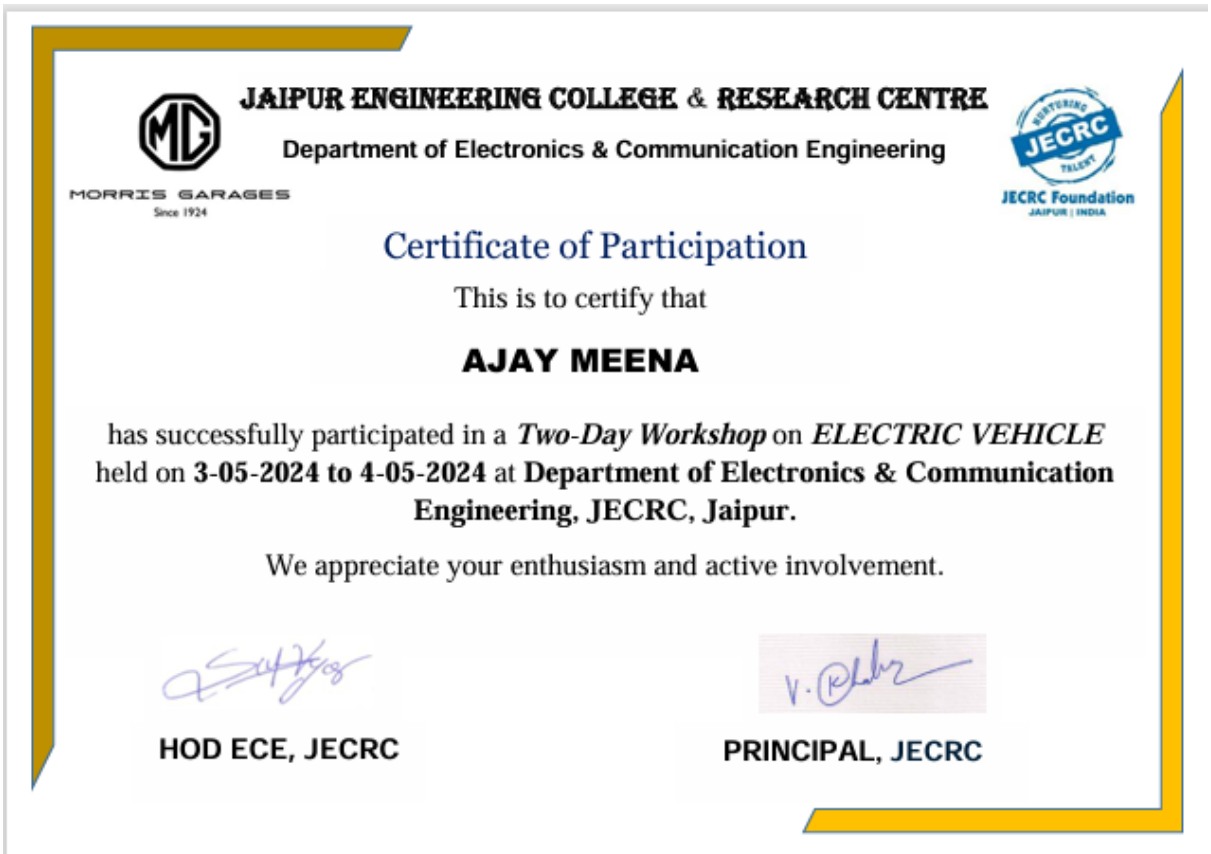

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