



D:- 14/01/2019

**Department of Electrical Engineering**  
**Activity Report**

<b>Title</b>	EV electrical battery
<b>Duration</b>	30 Hrs.
<b>Name of speaker</b>	Mr. Mangesh Bhandare
<b>Designation</b>	CEO
<b>Objectives</b>	The workshop will be conducted in a comprehensive manner, covering all aspects of battery technology and diagnostics. The focus will be on understanding the functioning of batteries, their diagnostics, and the importance of maintaining them properly. The workshop will also cover the latest advancements and technologies in the field of electric vehicle batteries.
<b>Beneficiary</b>	BE Electrical Engineering
<b>Number of Participants</b>	30
<b>Course Outcome</b>	students shall have a more in-depth understanding of introduction to electric vehicles, their importance and identify various components of an EV and be able to visualize the working of an EV powertrain



*Mangesh Bhandare*  
HOD

Electrical Engineering

HOD  
 Electrical Engineering Department  
 R G C O E, Karjule Harya



Date-

## Invitation Letter

To,  
**Mr. Mangesh Bhandare**  
CEO electrical battery Pvt.Ltd,  
Pune

Subject: Invitation to Conduct Workshop on: EV electrical battery.

Respected sir,

The Department of Electrical Engineering is pleased to invite you to conduct workshop on **EV electrical battery** in a month of January -2019. The aim of this session is Learn and Build a project on Solar and Smart Energy using Embedded System in this course. This includes practical exposure to solar energy production along with the real-life application of charging a battery. Students also learn the concepts of Smart energy and other industry trends like green energy, smart building, smart grid and energy harvesting technologies.

We look forward to a positive response from you soon.

Thanking You.

With Regards,

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Electrical Engineering Department  
R.G.C.E., Karjule Harya





Matoshri Shaikshanik Pratishthan's

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Date-

## Department of Electrical Engineering

### Notice

All the Second year Electrical Engineering Students are hereby informed that the Workshop is organized on Electrical Design Engineering having an Expert **Mr. Mangesh Bhandare** from **EV electrical battery Pvt.Ltd Pune** will be conducted on 14/01/2019 to 18/01/2019 by our college. The session shall be conducted in Class room. Hence all Final year students are informed to attend the same.

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Workshop on

## EV electrical battery

### Introduction about the Workshop and Objectives:

The EV Masterclass series is a platform for learning and skill development in the field of electric vehicles. It is an opportunity for individuals to gain hands-on experience and understand the practical aspects of battery technology and diagnostics. This knowledge can be beneficial for anyone interested in the field of electric vehicles, whether they are professionals, students, or enthusiasts.

The workshop will be conducted in a comprehensive manner, covering all aspects of battery technology and diagnostics. The focus will be on understanding the functioning of batteries, their diagnostics, and the importance of maintaining them properly. The workshop will also cover the latest advancements and technologies in the field of electric vehicle batteries.

**Date: 14<sup>th</sup> and 18th January 2019**

**Duration of Workshop: 5 Days**

**How many Students will participate in this workshop: - 30 .**

**Expert Persons: - 1) Name of Person:- Mr. Mangesh Bhandare**

**Position:- CEO**

**Company Name / College Name:- electrical battery Pvt.Ltd Pune**

**Email id:- mangeshbhandare321@gmail.com**

**Topics to be Covered in this Workshop:-**

**Day 1: (14-01-2019)**

- Introduction to EV Industry in India
- Fundamentals of EV Technology







## Day 2: (15-01-2019)

- Working Of Electric Vehicle
- vehicle hardware - Fundamentals of motor components and its functioning
- Types of EVs in market

## Day 3: (16-01-2019)

- Understanding Engine & Basic Principal
- Understanding Battery & Types
- Learn battery management system working

## Day 4: (17-01-2019)

- Algorithm of working of mechatronics (ABS, EBD, ESP & Traction Control)
- Ease in putting Traction Control in EVs

## Day 5: (18-01-2019)

- Advantages of EV over I.C.E. vehicle
- Elements of MECHATRONICS Tech. (Sensors ECU/ECM Actuator)

## Outcomes & Benefits of the workshop:-

students shall have a more in-depth understanding of introduction to electric vehicles, their importance and identify various components of an EV and be able to visualize the working of an EV powertrain





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## Expert Session Feedback

Name of Student: *Bisajda vaibhav shiraji*

Class: *B. E.*

Name of Speaker: *Mr. Mangesh Bhandare*

Topic: *EV electrical battery*

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*





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## Expert Session Feedback

Name of Student: Chouhan Ramsingh Ramkumar

Class: B.E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok - -







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## Expert Session Feedback

Name of Student: *Chaudhori Ganesh Sudam*

Class: *B.E*

Name of Speaker: *Mr. Mangesh Bhandare*

Topic: *EV electrical battery*

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*





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## Expert Session Feedback

Name of Student: *choudhari somnath Gavaram*

Class: *B.E.*

Name of Speaker: *Mr. Mangesh Bhandare*

Topic: *EV electrical battery*

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok - -*





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## Expert Session Feedback

Name of Student: *Chozamale Sandip Dattu*

Class: *B.E*

Name of Speaker: *Mr. Mangesh Bhandare*

Topic: *EV electrical battery*

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*







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## Students Feedback Analysis

Number of Students present:- 30

Number students filled the feedback :- 30

1. Understanding the session delivered.
2. Interaction with the student.
3. Whether workshop was useful to you
4. Overall impression.

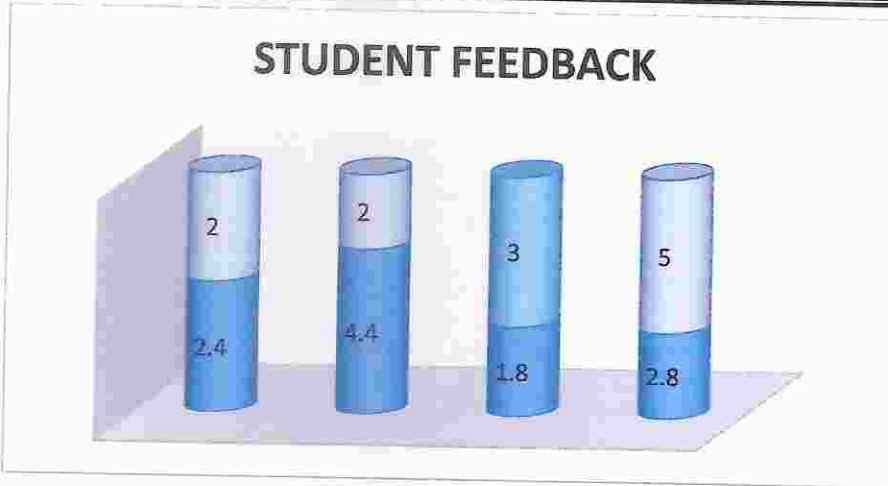
	Excellent	Very Good	Good	Average
1	10	20	NIL	NIL
2	10	15	05	NIL
3	15	15	NIL	NIL
4	15	10	05	NIL





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Comments :-

*NIL*

Observation :-

*OK*

Action Taken:-

*NIL*

Coordinator



*[Signature]*

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Electrical Dept.

**HOD**  
Electrical Engineering Department  
R.G.C.O.E., Karjule Harya



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## Expert Feedback Form

Respected Sir please gives your valuable feedback

Emil id. mangeshbhandare321@gmail.com

Name :- Mr. Mangesh Bhandare

Organization :- electrical battery Pvt.Ltd, Pune

Designation :- CEO

Topic of Workshop :- EV electrical battery

Sr.no.	Description	Excellent	Very Good	Good	Average
1.	Cooperation from faculty/dept/institute	✓			
2.	Audio/Video System arrangement		✓		
3.	Content understanding level of students	✓			
4.	Interaction of student	✓			
5.	Level of question asked by the students	✓			
6.	Overall rating	✓			

Is there any additional feedback that you would like to offer?



*Mangesh Bhandare*  
Authority Sign.





## Letter of Thanks

To,

**Mr. Mangesh Bhandare**

**CEO, Electrical Battery Pvt.Ltd,**

**Pune**

Dear Sir,

On behalf of Department of Electrical Engineering, Rajiv Gandhi College of Engineering, Karjule Harya, we would like to extend our heartiest thanks for accepting our invitation for workshop. Your workshop on "EV electrical battery" will be helpful to our students.

Thank you for your motivation and benefitted valuable guidance. We are expecting similar kind of cooperation in future.

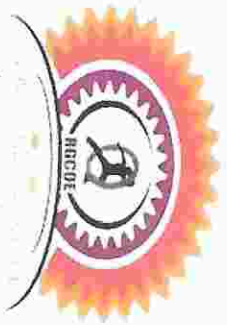
Sincerely,



  
HOD

Electrical Engineering

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Electrical Engineering Department  
R.G.C.E., Karjule Harya



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Tal.-Parner, Dist.-Ahmednagar, Pin:414304

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## Certificate

This is to certify that Mr. / Ms. Birajdar Vaibhav Shivaji has participated in **EV electrical battery** which is organized by Department of **Electrical Engineering** Dated

**14/01/2019 To 18/01/2019**



**IQAC In-charge**

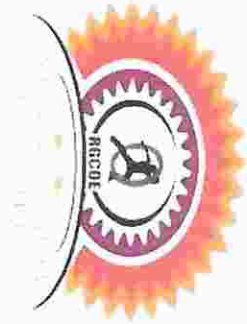
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**PRINCIPAL**

Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A. Nagar



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This is to certify that Mr. / Ms. Chauhan Ramsingh Ramkumar has participated  
in **EV electrical battery** which is organized by Department of **Electrical Engineering**

Dated **14/01/2019** To **18/01/2019**

  
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Rajiv Gandhi College of Engineering  
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Dist. Ahmednagar-414304



  
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Rajiv Gandhi College of Engineering  
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## Certificate

This is to certify that Mr. / Ms. Chaudhari Ganesh Sudam has participated in

**EV electrical battery** which is organized by Department of **Electrical Engineering**

**Dated 14/01/2019 To 18/01/2019**

  
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## Certificate

This is to certify that Mr. / Ms. Choudhari Somnath Gavaram has participated in **EY electrical battery** which is organized by Department of **Electrical Engineering**

Dated **14/01/2019** To **18/01/2019**

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Dist. Ahmednagar-414304



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## Certificate

This is to certify that Mr. / Ms. Choramale Sandip Dattu has participated in **EV electrical battery** which is organized by Department of **Electrical Engineering** Dated **14/01/2019 To 18/01/2019**

  
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India





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## Attendance

Class-BE (ELEC)

	Name of Student	Day-1	Day-2	Day-3	Day-4	Day-5
1	Birajdar Vaibhav Shivaji	Vaibhav	Vaibhav	Vaibhav	Vaibhav	Vaibhav
2	Chauhan Ramsingh Ramkumar	Ram	Ram	Ram	Ram	Ram
3	Chaudhari Ganesh Sudam	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
4	Choudhari Somnath Gavaram	Somnath	Somnath	Somnath	Somnath	Somnath
5	Choramale Sandip Dattu	Sandip	Sandip	Sandip	Sandip	Sandip
6	Dharam Aishwarya Gangadhar	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
7	Gadhawe Sudarshan Nanasaheb	Sudarshan	Sudarshan	Sudarshan	Sudarshan	Sudarshan
8	Gaikwad Rahul Manohar	Rahul	Rahul	Rahul	Rahul	Rahul
9	Gaikwad Pramod Bhagawat	Pramod	Pramod	Pramod	Pramod	Pramod
10	Gorade Parasharam Kacharu	Parasharam	Parasharam	Parasharam	Parasharam	Parasharam
11	Inamke Vishal Rajendra	Vishal	Vishal	Vishal	Vishal	Vishal
12	Jadhav Niraj Bacharaj	Niraj	Niraj	Niraj	Niraj	Niraj
13	Jadhav Pooja Kisan	Pooja	Pooja	Pooja	Pooja	Pooja
14	Jadhav Saurabh Anil	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh
15	Kalhature Ganesh Ashok	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
16	Kavalekar Amey Dilip	Amey	Amey	Amey	Amey	Amey
17	Kakade Dipak Muralidhar	Dipak	Dipak	Dipak	Dipak	Dipak
18	Khodade Satish Sudam	Satish	Satish	Satish	Satish	Satish
19	Kulkarni Ajay Vishwanath	Ajay	Ajay	Ajay	Ajay	Ajay
20	Mune Akshay Ganesh	Akshay	Akshay	Akshay	Akshay	Akshay
21	Nanekar Shubham Sahebrao	Shubham	Shubham	Shubham	Shubham	Shubham
22	Nikale Nikhil Kailas	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
23	Phalake Vrushali Raychand	Vrushali	Vrushali	Vrushali	Vrushali	Vrushali
24	Patare Sagar Bhausaheb	Sagar	Sagar	Sagar	Sagar	Sagar
25	Patil Amol Diliprao	Amol	Amol	Amol	Amol	Amol
26	Patil Ranjit Sunil	Ranjit	Ranjit	Ranjit	Ranjit	Ranjit
27	Parmar Ravindra Dharmendra	Ravindra	Ravindra	Ravindra	Ravindra	Ravindra
28	Ruchke Krushna Bhimrao	Krushna	Krushna	Krushna	Krushna	Krushna
29	Rahane Savita Sahebrao	Savita	Savita	Savita	Savita	Savita
30	Satpute Kajal Tanaji	Kajal	Kajal	Kajal	Kajal	Kajal





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## Expert Session Feedback

Name of Student: Dharam Aishwarya Gangadhar Class: B. E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok ---





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## Expert Session Feedback

Name of Student: Gadhane Sudroshan Nanasaheb Class: B.E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Gaikwad Rahul Manohar

Class: B.E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

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Excellent       Very good       Good       Average

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4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok

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## Expert Session Feedback

Name of Student: Gaikwad Pramod Bhagwat

Class: B-E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok--



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## Expert Session Feedback

Name of Student: *Gozde Parasharam Kacharu*

Class: *B. E.*

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok--*

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## Expert Session Feedback

Name of Student: *Indamke Vistal Rajendra*

Class: *B.E.*

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok---*



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## Expert Session Feedback

Name of Student: Jadhav Nizaj Bachasaj

Class: B.E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *Jadhav Pooja kisan*

Class: *B.E.*

Name of Speaker: *Mr. Mangesh Bhandare*

Topic: *EV electrical battery*

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok - - -*

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## Expert Session Feedback

Name of Student: Jahdv Surabh Anil

Class: B.E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

ok - -

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## Expert Session Feedback

Name of Student: *Kalhapure Ganesh Ashok*

Class: *B.E.*

Name of Speaker: Mr. Mangesh Bhandare

Topic: *EV electrical battery*

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

*ok*

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## Expert Session Feedback

Name of Student: kavalekar Amey Bilip

Class: B.E.

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok - -





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## Expert Session Feedback

Name of Student: *Kakade Dipak Musalidar* Class: *B.E.*

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

*ok.*

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## Expert Session Feedback

Name of Student: *khadade satish*

Class: *B.E.*

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

*ok*

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## Expert Session Feedback

Name of Student: Kuldeepi Aja-j

Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

ok

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## Expert Session Feedback

Name of Student: मुरारि अक्षय

Class: B E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

OK

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## Expert Session Feedback

Name of Student: Narkar Shubham

Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

OK



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## Expert Session Feedback

Name of Student: Nikade Nikhile

Class: B E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok

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## Expert Session Feedback

Name of Student: phadkar Udashadi

Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

OK



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## Expert Session Feedback

Name of Student: patara sagar

Class: BE

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok



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## Expert Session Feedback

Name of Student: *Patil Anand*

Class: *B.E*

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *padil Rishi*

Class: *B.E*

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*

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## Expert Session Feedback

Name of Student: Purima - Advigya

Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Ruchika Krushna Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

OK





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## Expert Session Feedback

Name of Student: Ahmad Saad

Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Satpujra Kulkarni

Class: B.E

Name of Speaker: Mr. Mangesh Bhandare

Topic: EV electrical battery

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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## Department of Electrical Engineering

D: 24-11-20

### Activity Report

<b>Title</b>	Solar & Smart Energy
<b>Duration</b>	30 Hrs.
<b>Name of speaker</b>	Mr. Ashok Patil
<b>Designation</b>	CEO
<b>Objectives</b>	Learn and Build a project on Solar and Smart Energy using Embedded System in this course. This includes practical exposure to solar energy production along with the real-life application of charging a battery.
<b>Beneficiary</b>	SE Electrical Engineering
<b>Number of Participants</b>	25
<b>Course Outcome</b>	<ol style="list-style-type: none"><li>1. Gives You Freedom and Control over Electricity</li><li>2. Qualifies for Tax Breaks</li><li>3. You May Save on Your Current Utility Bill</li><li>4. Costs Have Fallen</li></ol>



HOD

Electrical Engineering

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



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Date-

## Invitation Letter

To,  
**Mr. Ashok Patil,**  
**CEO, Solar Energy Pvt.Ltd,**  
**Pune**

Subject: Invitation to Conduct Workshop on: **Solar & Smart Energy.**

Respected sir,

The Department of Electrical Engineering is pleased to invite you to conduct workshop on **Solar & Smart Energy** in a month of Novmber-2020. The aim of this session is Learn and Build a project on Solar and Smart Energy using Embedded System in this course. This includes practical exposure to solar energy production along with the real-life application of charging a battery. Students also learn the concepts of Smart energy and other industry trends like green energy, smart building, smart grid and energy harvesting technologies.

We look forward to a positive response from you soon.

Thanking You.

With Regards,

**HOD**

**Electrical Engineering**



**H.O.D.**  
**Department of Electrical Engineering**  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal.Parner, Dist.A'Nagar





# RAJIV GANDHI COLLEGE OF ENGINEERING

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Date-

## Department of Electrical Engineering

### Notice

All the Second year Electrical Engineering Students are hereby informed that the Workshop is organized on Electrical Design Engineering having an Expert Mr. Ashok Patil from **Solar Energy Pvt.Ltd Pune** will be conducted on 24/11/2020 to 28/11/2020 by our college. The session shall be conducted in Class room. Hence all Second year students are informed to attend the same.

HOD

Electrical Engineering



H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



## Workshop on

## “Solar & Smart Energy”

### Introduction about the Workshop and Objectives:

Learn and Build a project on Solar and Smart Energy using Embedded System in this course. This includes practical exposure to solar energy production along with the real-life application of charging a battery. Students also learn the concepts of Smart energy and other industry trends like green energy, smart building, smart grid and energy harvesting technologies. In today's time its a need to switch to renewable energy sources to save our climate, save non-renewable energy, reduce pollution, money saving etc. In this workshop students will learn about the benefits of renewable sources like Solar Energy with practical exposure on how to use solar energy and covert it to smart energy with some real time projects.

**Solar Energy:-** Solar energy works by capturing the sun's energy and turning it into electricity for your home or business. Solar energy is radiant light and heat from the Sun that is harnessed using a range of ever-evolving technologies such as solar heating, photovoltaic, solar thermal energy, solar architecture, molten salt power plants and artificial photosynthesis.

**Smart Energy :-** Smart energy is a cost-effective and sustainable energy system in which renewable energy production, infrastructures, and consumption are integrated and coordinated through energy services, active users, and enabling technologies.

**Date:** 24<sup>th</sup> and 28th November 2020

**Duration of Workshop:** 5 Days

**How many Students will participate in this workshop:** -30 .

**Expert Persons:** - 1) Name of Person:- Mr. Ashok Patil

Position:- CEO

Company Name / College Name:- Solar Energy Pvt.Ltd Pune

Email id:- [ashokpatil220@gmail.com](mailto:ashokpatil220@gmail.com)



## Topics to be covered in this Workshop:

### DAY 1: (24/09/2020)

- What is Solar Energy
- Solar Energy need and Application
- Solar Thermal
- Solar Electricity
- What are Smart Energy System ?
- Other Renewable Energy Technologies
- Appropriate Technology for the Developing World
- Economics of Renewable Energy
- How photovoltaic cells work

### DAY 2: (25/09/2020)

- Introduction to Arduino
- Arduino Programming Basics
- Installation for Arduino Software.
- Software installation

### DAY 3: (26/09/2020)

- Graphical Programming Basics
- Exercise 1: Simple Led Program
- Exercise 2: Led Blinking
- Project 1: Traffic Light System
- Project 2: Smart Street Light System



## DAY 4 : (27/09/2020)

- Connection and Assembling
- Troubleshooting
- Project 3: Smart Car Parking System
- Project 4: LCD Integration & Message Printing on LCD
- Project 5: Testing smart energy project

## DAY 5 : (28/09/2020)

- Project 6: Smart Traffic Control System
- Project 7: Solar powered Led Street Light With Auto Intensity Control
- Project 8: Design of Simple solar Charger Circuit for Mobile.
- Project 9: Sun Tracking Solar Panel

## Outcomes & Benefits of the workshop:-

1. Gives You Freedom and Control over Electricity
2. Qualifies for Tax Breaks
3. You May Save on Your Current Utility Bill
4. Costs Have Fallen





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## Expert Session Feedback

Name of Student: Dabade Prinjuka

Class: SE

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

OK

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## Expert Session Feedback

Name of Student: *Kalhapure Garsh*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*

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## Students Feedback Analysis

Number of Students present:- 30

Number students filled the feedback :- 30

1. Understanding the session delivered.
2. Interaction with the student.
3. Whether workshop was useful to you
4. Overall impression.

	Excellent	Very Good	Good	Average
1	10	20	NIL	NIL
2	10	15	05	NIL
3	15	15	NIL	NIL
4	15	10	05	NIL



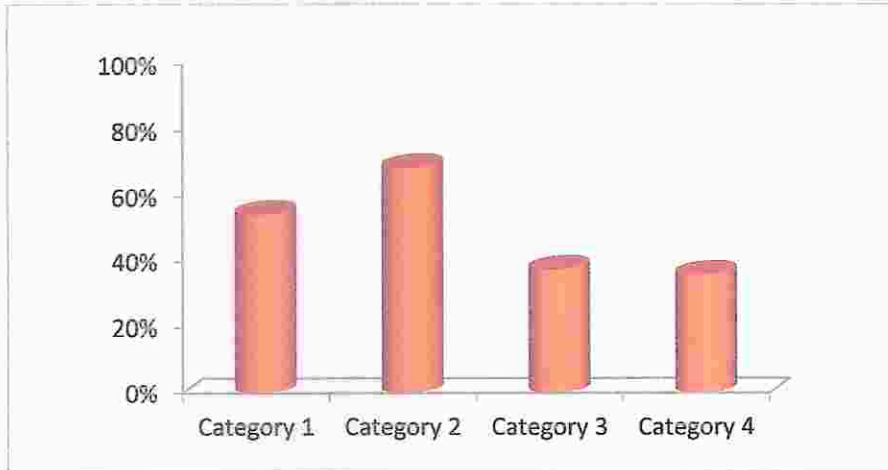


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Comments :-

*nil*

Observation :-

*ok*

Action Taken:-

*nil*

Coordinator



HOD  
Electrical Dept.

H.O.D.  
Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A'Nagar





## Expert Feedback Form

Respected Sir please gives your valuable feedback

Emil id. [ashokpatil220@gmail.com](mailto:ashokpatil220@gmail.com)

Name :- **Mr. Ashok Patil**

Organization :- **Solar Energy Pvt.Ltd Pune**

Designation :- **CEO**

Topic of Workshop :- **Solar & Smart Energy**

Sr.no.	Description	Excellent	Very Good	Good	Average
1.	Cooperation from faculty/dept/institute	✓			
2.	Audio/Video System arrangement		✓		
3.	Content understanding level of students	✓			
4.	Interaction of student	✓			
5.	Level of question asked by the students	✓			
6.	Overall rating	✓			

Is there any additional feedback that you would like to offer?

  
Authority Sign.



## Letter of Thanks

To,

**Mr. Ashok Patil**

**CEO,**

**Solar Energy Pvt.Ltd Pune**

Dear Sir,

On behalf of Department of Electrical Engineering, Rajiv Gandhi College of Engineering, Karjule Harya, we would like to extend our heartiest thanks for accepting our invitation for workshop. Your workshop on "Solar & Smart Energy" will be helpful to our students.

Thank you for your motivation and benefitted valuable guidance. We are expecting similar kind of cooperation in future.

Sincerely,



**HOD**

**Electrical Engineering**

**H.O.D.**

**Department of Electrical Engineering**  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A'Nagar



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## Certificate

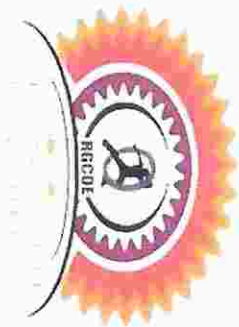
This is to certify that **Mr. / Ms. DOBADE PRIYANKA SHARAD** has participated in **Solar and Smart Energy** which is organized by Department of **Electrical Engineering** Dated **24/11/2020** To **28/11/2020**.

  
IQAC In-charge  
Rajiv Gandhi College of Engineering  
Karjule Haryana, Tal. Parner  
Dist. Ahmednagar-414304



  
PRINCIPAL  
Rajiv Gandhi College of Engineering  
Karjule Haryana, Tal. Parner, Dist. A. Nagar





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## Certificate

This is to certify that **MR. / Ms. FALKE RAM BAPURAO** has participated in **Solar and Smart Energy** which is organized by Department of **Electrical Engineering**

Dated **24/11/2020** To **28/11/2020**.

**IQAC In-charge**

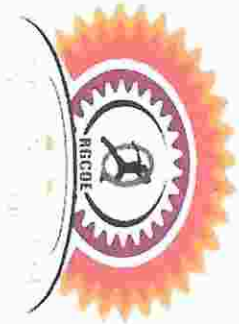
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Dist. Ahmednagar-414304



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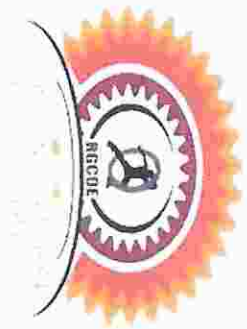
## Certificate

This is to certify that Mr. / Ms. GAVASANE MAHESH VAIJINATH has participated in **Solar and Smart Energy** which is organized by Department of **Electrical Engineering** Dated **24/11/2020** To **28/11/2020**.

  
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## Certificate

This is to certify that Mr. / Ms. KALHAPURE GANESH ASHOK has participated in **Solar and Smart Energy** which is organized by Department of **Electrical Engineering** Dated **24/11/2020** To **28/11/2020**.

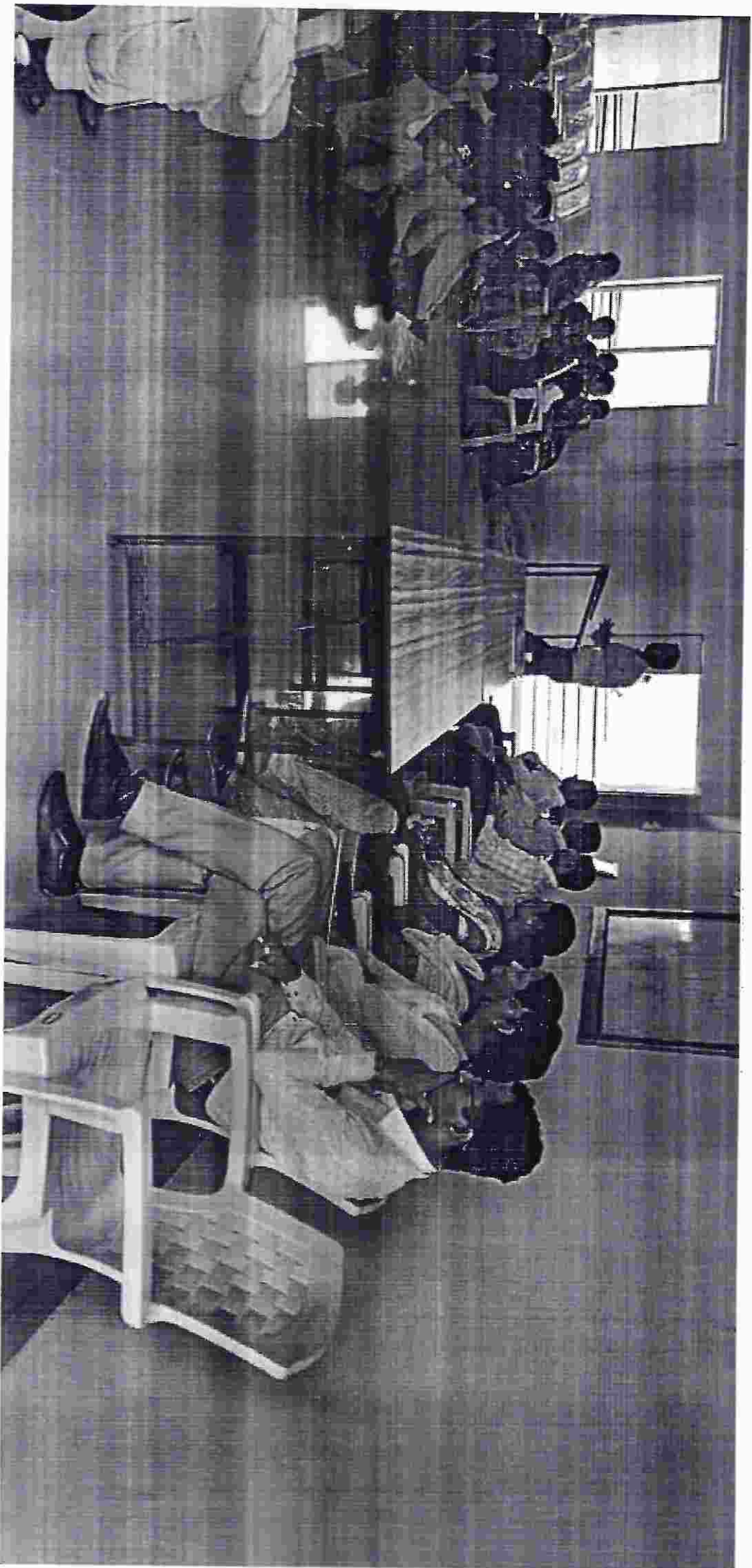
  
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## Attendance

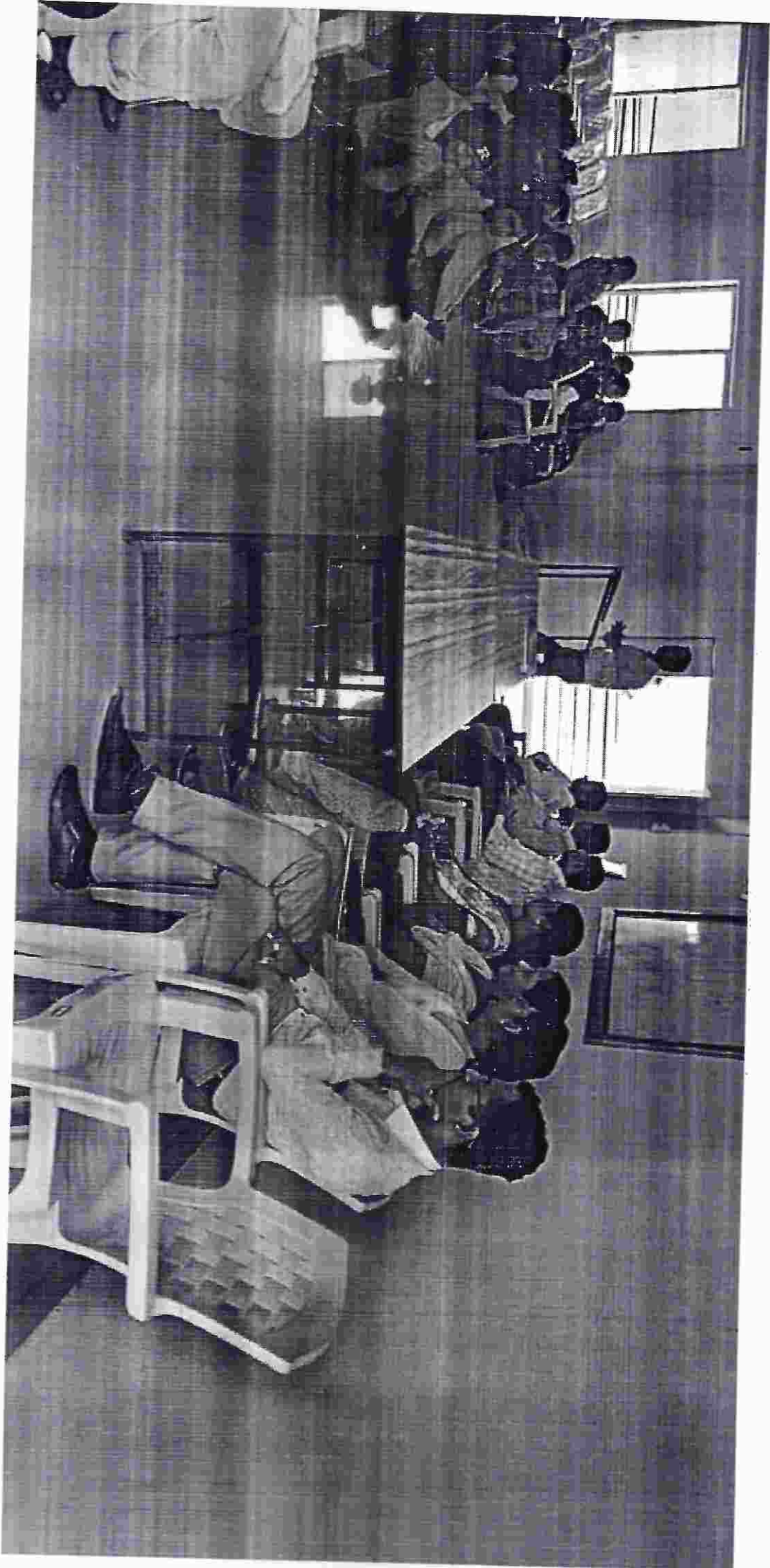
Class-SE (ELEC)

	Name of Student	Day-1	Day-2	Day-3	Day-4	Day-5
1	DOBADE PRIYANKA SHARAD	<del>Pr</del>	<del>Pr</del>	<del>Pr</del>	<del>Pr</del>	<del>Pr</del>
2	FALKE RAM BAPURAO	Ram	Ram	Ram	Ram	Ram
3	GAVASANE MAHESH VAIJINATH	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh
4	ITKAR PANDURANG JALINDAR	Pung	Pung	Pung	Pung	Pung
5	KALHAPURE GANESH ASHOK	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
6	MALI SAGAR RAMESH	Sle	Sle	Sle	Sle	Sle
7	NALAWADE ANIKET MUKUND	Aniket	Aniket	Aniket	Aniket	Aniket
8	SATHE SAGAR RAMESH	Sagar	Sagar	Sagar	Sagar	Sagar
9	SHINDE JEEVAN CHAMPALAL	Jeevan	Jeevan	Jeevan	Jeevan	Jeevan
10	SHINDE RUPESH DNYANESHWAR	R.D.S	R.D.S	R.D.S	R.D.S	R.D.S
11	ZIRPE AMOL MAHADEO	Amol	Amol	Amol	Amol	Amol
12	BIRAJDAR VAIBHAV SHIVAJI	Vab	Vab	Vab	Vab	Vab
13	ANBHAVANE SUMIT SUBHASH	Sumit	Sumit	Sumit	Sumit	Sumit
14	BEMBDE DIPALI DNYANOBA	Dip	Dip	Dip	Dip	Dip
15	DHENDE SACHIN RAVINDRA	Sachin	Sachin	Sachin	Sachin	Sachin
16	DUKALE AKSHAY SANJAY	Akshay	Akshay	Akshay	Akshay	Akshay
17	KALE ROHINI APPASAHEB	Kale	Kale	Kale	Kale	Kale
18	MALODE SUMIT POPAT	Sumit	Sumit	Sumit	Sumit	Sumit
19	SABLE ASHUTOSH RAMDAS	Ace	Ace	Ace	Ace	Ace
20	SATHE NIKITA RAJU	Nikita	Nikita	Nikita	Nikita	Nikita
21	SHETE RUSHIKESH KAILAS	Rush	Rush	Rush	Rush	Rush
22	WAGHMARE YOUNGESH D	Youn	Youn	Youn	Youn	Youn
23	DARADE SHUBHAM GORAKH	Shub	Shub	Shub	Shub	Shub
24	DUKALE AKSHAY SANJAY	Akshay	Akshay	Akshay	Akshay	Akshay
25	SATHE NIKITA RAJU	Nikita	Nikita	Nikita	Nikita	Nikita













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## Attendance

Class-SE (ELEC)

	Name of Student	Day-1	Day-2	Day-3	Day-4	Day-5
1	DOBADE PRIYANKA SHARAD	<u>Priyanka</u>	<u>Priyanka</u>	<u>Priyanka</u>	<u>Priyanka</u>	<u>Priyanka</u>
2	FALKE RAM BAPURAO	<u>Ram</u>	<u>Ram</u>	<u>Ram</u>	<u>Ram</u>	<u>Ram</u>
3	GAVASANE MAHESH VAIJINATH	<u>Mahesh</u>	<u>Mahesh</u>	<u>Mahesh</u>	<u>Mahesh</u>	<u>Mahesh</u>
4	ITKAR PANDURANG JALINDAR	<u>Pandurang</u>	<u>Pandurang</u>	<u>Pandurang</u>	<u>Pandurang</u>	<u>Pandurang</u>
5	KALHAPURE GANESH ASHOK	<u>Ganesh</u>	<u>Ganesh</u>	<u>Ganesh</u>	<u>Ganesh</u>	<u>Ganesh</u>
6	MALI SAGAR RAMESH	<u>Sagar</u>	<u>Sagar</u>	<u>Sagar</u>	<u>Sagar</u>	<u>Sagar</u>
7	NALAWADE ANIKET MUKUND	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>
8	SATHE SAGAR RAMESH	<u>Sagar</u>	<u>Sagar</u>	<u>Sagar</u>	<u>Sagar</u>	<u>Sagar</u>
9	SHINDE JEEVAN CHAMPALAL	<u>Jeevan</u>	<u>Jeevan</u>	<u>Jeevan</u>	<u>Jeevan</u>	<u>Jeevan</u>
10	SHINDE RUPESH DNYANESHWAR	<u>R.D.S</u>	<u>R.D.S</u>	<u>R.D.S</u>	<u>R.D.S</u>	<u>R.D.S</u>
11	ZIRPE AMOL MAHADEO	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>	<u>Amol</u>
12	BIRAJDAR VAIBHAV SHIVAJI	<u>Vaib</u>	<u>Vaib</u>	<u>Vaib</u>	<u>Vaib</u>	<u>Vaib</u>
13	ANBHAVANE SUMIT SUBHASH	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>
14	BEMBDE DIPALI DNYANOBA	<u>Dipal</u>	<u>Dipal</u>	<u>Dipal</u>	<u>Dipal</u>	<u>Dipal</u>
15	DHENDE SACHIN RAVINDRA	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>	<u>Sachin</u>
16	DUKALE AKSHAY SANJAY	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>	<u>Akshay</u>
17	KALE ROHINI APPASAHEB	<u>Kalr</u>	<u>Kalr</u>	<u>Kalr</u>	<u>Kalr</u>	<u>Kalr</u>
18	MALODE SUMIT POPAT	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>
19	SABLE ASHUTOSH RAMDAS	<u>Ace</u>	<u>Ace</u>	<u>Ace</u>	<u>Ace</u>	<u>Ace</u>
20	SATHE NIKITA RAJU	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>
21	SHETE RUSHIKESH KAILAS	<u>Rush</u>	<u>Rush</u>	<u>Rush</u>	<u>Rush</u>	<u>Rush</u>
22	WAGHMARE YOUNGESH D	<u>Youn</u>	<u>Youn</u>	<u>Youn</u>	<u>Youn</u>	<u>Youn</u>
23	DARADE SHUBHAM GORAKH	<u>Shub</u>	<u>Shub</u>	<u>Shub</u>	<u>Shub</u>	<u>Shub</u>
24	DUKALE AKSHAY SANJAY	<u>Aksh</u>	<u>Aksh</u>	<u>Aksh</u>	<u>Aksh</u>	<u>Aksh</u>
25	SATHE NIKITA RAJU	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>







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## Expert Session Feedback

Name of Student: *madhi sagare*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*OK*





Matoshri Shaikshanik Pratishthan's

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## Expert Session Feedback

Name of Student: *Shivam Dindia*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

*OK*



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Estd. 2012

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## Expert Session Feedback

Name of Student: *shinde Rupesh*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*



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## Expert Session Feedback

Name of Student: ZIARPE amok

Class: SE

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

OK





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## Expert Session Feedback

Name of Student: Birajdar Vaibhav

Class: SE

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *Bombale Dipali*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*OK*

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## Expert Session Feedback

Name of Student: Dheendra Sachin

Class: SE

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

ok





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## Expert Session Feedback

Name of Student: Dukadkar Akshay

Class: 3E

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

OK



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## Expert Session Feedback

Name of Student: *Sathya Nikita*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

*OK*



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## Expert Session Feedback

Name of Student: *Shruthi Rushikosh*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

*ok*





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## Expert Session Feedback

Name of Student: waghmare jagdish Class: SE

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *Datolder Shubham*

Class: *SI*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *Sethu Nikita*

Class: *SE*

Name of Speaker: Mr. Ashok Patil

Topic: Solar & Smart Energy

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*ok*

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## Department Of Electrical Engineering Activity Report

Date- 21/09/2021

<b>Title</b>	Industrial Automation - PLC & SCADA
<b>Duration</b>	30 Hrs.
<b>Name of speaker</b>	Mr. Sanchit Dhanve
<b>Designation</b>	Asst. Manager Shilpa Industry Pvt. Ltd.
<b>Objectives</b>	The main objective of this WORKSHOP is to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation. The idea of organizing this workshop is to inculcate the basic fundamentals of automation in the students and provide them with a platform to work on, In The Near Future.
<b>Beneficiary</b>	BE Electrical Engineering
<b>Number of Participants</b>	25
<b>Course Outcome</b>	<b>Productivity.</b> These systems make automation possible for factories and industrial processes, allowing a <b>continuous mass production 24/7</b> . 24 hours a day, seven days a week, this improves productivity and reduces assembly times.



*Sanchit Dhanve*

HOD  
Electrical Engineering

**H.O.D.**  
Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. Ahmednagar



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Date-

## Invitation Letter

To,  
**Mr. Sanchit Dhanve**  
Asst. Manager  
Shilpa Industry Pvt. Ltd.,  
Pune

**Subject:** Invitation to Conduct Workshop on: Industrial Automation – PLC SCADA.

Respected sir,

The Department of Mechanical Engineering is pleased to invite you to conduct workshop on Electrical Design Engineering in a month of **September-2021**. The aim of this session is to give knowledge about Design in electrical and deep learning in electrical machine design transformer design. Your experience will definitely help our students to discover new opportunities in the field of manufacturing.

We look forward to a positive response from you soon.

Thanking You.

With Regards,

HOD

Electrical Engineering

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Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar





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Date-

Department of Electrical Engineering

## Notice

All the third year Electrical Engineering Students are hereby informed that the Workshop is organized on **Industrial Automation - PLC & SCADA** having an Expert Mr. Sanchit Dhanve from Shilpa Industry Pvt.Ltd.Pune will be conducted on 21/09/2021 to 25/09/2021 by our college. The session shall be conducted in Class room. Hence all third year students are informed to attend the same.

HOD



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Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



# Workshop on Industrial Automation - PLC & SCADA

## **Introduction about the Workshop and Objectives:**

Automation is basically the delegation of human control function to technical equipment. It is the use of control systems such as computers, PLCs, Microcontrollers to control machinery and processes to reduce the need for human sensory and mental requirements as well. Industrial Automation i.e. to "Automate Industry" is the basic need of almost every type of manufacturing and production unit today. Food/ Beverage, Metal, Mining, Power, Textile, Petrochemical, Machine Manufacturing, Automobile etc are the few examples where we see the automation today.

The main objective of this WORKSHOP is to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation. The idea of organizing this workshop is to inculcate the basic fundamentals of automation in the students and provide them with a platform to work on, In The Near Future.

The Most Used Guiding Force Behind An Automated Industrial Plant Is A "Programmable Logic Controller" Generally Known As A PLC. PLCs Along With Certain Other Necessary Ingredients Like Sensors, Motors, Actuators, Valves, Conveyors, Boilers, SCADA Systems, Computers & Many More, Makes A Real Automated Manufacturing Plant.

**Date: 21<sup>th</sup> and 25<sup>th</sup> September 2021**

**Duration of Workshop: 5 Days**

**How many Students will participate in this workshop :- (Total Students 25 ).**

**Software Use :- PLC & Scada Software.**

**Expert Persons:- 1) Name of Person :- Mr. Sanchit Dhanve**

**Position: - Asst.Manager**

**Company Name :- Shilpa Industry Pvt.Ltd.Pune**

**Email id: - shilpasolar@gmail.com**

## Topics to be Covered in this Workshop:-

### DAY 1: (21/09/2021)

- Introduction to Automation.
- Why We Need Automation.

### DAY 2: (22/09/2021)

- Where Automation?
- Evolution in Industrial Automation (A Brief History).
- Different Type of Industrial Control Mechanisms.

### DAY 3: (23/09/2021)

- Introduction to PLCs PLC Advantages Over Microcontrollers.
- Area Of Applications, DATA Flow during Automation.
- Motor Drives Introduction & Their Need.

### DAY 4: (24/09/2021)

- Sensors Introduction & Their Need. HMI Introduction & Its Need.
- SCADA Introduction & Its Need.

### DAY 5: (25/09/2021)

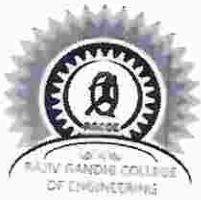
- Module II: PLCs & PLC Programming
- Allen Bradley Micrologix 1000 PLC (Digital PLC), Delta (Analog PLC)
- Module III: (SCADA Programming- Basic & Advanced)

## Outcomes & Benefits of the workshop :-

1. **Productivity.** These systems make automation possible for factories and industrial processes, allowing a **continuous mass production 24/7**. 24 hours a day, seven days a week, this improves productivity and reduces assembly times.
2. **Quality.** By means of adaptive control and monitoring in different stages and industrial processes, these systems are useful in **eliminating human error and thus improve the quality and homogeneity of the products** offered. The performance is not reduced after several hours of continuous work.

3. **Greater consistency.** Machines and computers work at a constant and continuous pace. Therefore, automated production processes have a **longer duration, stability and solidity** when managed with an automation system.





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# Rajiv Gandhi College of Engineering

Karjule Harya, Tal-Parner, Dist-Ahmednagar: 414304

Department of Electrical Engineering

## Workshop on Electrical Design Engineering

### Syllabus

1. Introduction to Automation. Why We Need Automation
2. Where Automation Evolution in Industrial Automation Different Type of Industrial Control Mechanisms
3. Introduction to PLCs PLC Advantages Over Microcontrollers Area Of Applications, DATA Flow during Automation Motor Drives Introduction & Their Need.
4. Sensors Introduction & Their Need. HMI Introduction & Its Need SCADA Introduction & Its Need
5. Module II: PLCs & PLC Programming Allen Bradley Micrologix 1000 PLC (Digital PLC), Delta (Analog PLC) Module III: (SCADA Programming- Basic & Advanced)

Course Coordinator



Signature of HOD

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Rajiv Gandhi College of Engineering  
Karjule Harya, Tal.Parner, Dist.A'Nagar



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**Rajiv Gandhi College of Engineering**

Karjule Harya, Tal-Parner, Dist-Ahmednagar: 414304

**Department of Electrical Engineering**

**Workshop on Industrial Automation - PLC & SCADA**

No.	Date	Topic Covered	Topic Duration
1	21/09/2021	Introduction to Automation. Why We Need Automation.	6
2	22/09/2021	Where Automation Evolution in Industrial Automation Different Type of Industrial Control Mechanisms.	6
3	23/09/2021	Introduction to PLCs PLC Advantages Over Microcontrollers Area Of Applications, DATA Flow during Automation Motor Drives Introduction & Their Need.	6
4	24/09/2021	Sensors Introduction & Their Need. HMI Introduction & Its Need SCADA Introduction & Its Need.	6
5	25/09/2021	Module II: PLCs & PLC Programming Allen Bradley Micrologix 1000 PLC (Digital PLC), Delta (Analog PLC) Module III: (SCADA Programming- Basic & Advanced)	6

Course Coordinator

Signature of HOD



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Rajiv Gandhi College of Engineering  
Karjule Harya, Tal.Parner, Dist.A'Nagar



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## Expert Session Feedback

Name of Student: Kadam Neha

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Muande Vikram

Class: T-E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Vikram  
Sign of Student





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## Expert Session Feedback

Name of Student: Baisagi Rohan

Class: F.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Bhagwat Hrushikesh

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Bhaldad Umesh

Class: B E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression


Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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Vithalnagar, Kokate Vasti, Karjule Harya, (Takali Dhokeshwar) Nagar Kalyan Highway, Tal. Pamer, Dist. Ahmednagar, Pin-414304.  
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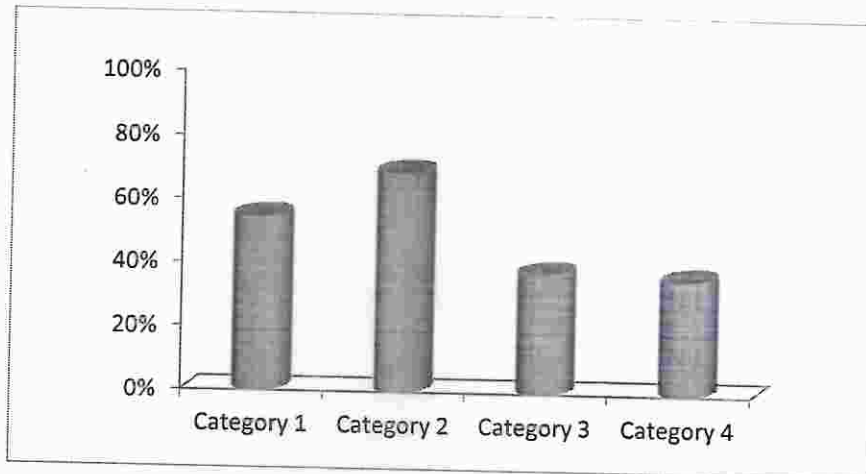
## Students Feedback Analysis

Number of Students present :- 25

Number students filled the feedback :- 25

1. Understanding the session delivered.
2. Interaction with the student.
3. Whether workshop was useful to you.
4. Overall impression.

	Excellent	Very Good	Good	Average
1	15	10	NIL	NIL
2	20	05	NIL	NIL
3	15	10	NIL	NIL
4	20	05	NIL	NIL







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Comments :-

NIL

Observation :-

OK

Action Taken:-

NIL

Coordinator



HOD  
Electrical Dept.

H.O.D.  
Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



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## Expert Feedback Form

Respected Sir please give your Valuable Feedback

Email id.:- [shilpasolar@gmail.com](mailto:shilpasolar@gmail.com)

Name :- Mr. Sanchit Dhanve

Organization :- Shilpa Industry Pvt.Ltd.

Designation :- CEO

Topic of Workshop :- Industrial Automation - PLC & SCADA

Sr.no.	Description	Excellent	Very Good	Good	Average
1.	Cooperation from faculty/dept/institute		✓		
2.	Audio/Video System arrangement	✓			
3.	Content understanding level of students	✓			
4.	Interaction of student		✓		
5.	Level of question asked by the students	✓			
6.	Overall rating	✓			

Is there any additional feedback that you would like to offer?

  
Sign of Authority



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## Letter of Thanks

To,

Mr. Sanchit Dhanve

Asst. Manager

Shilpa Industry Pvt. Ltd.

Pune,

Dear Sir,

On behalf of Department of Electrical Engineering, Rajiv Gandhi College of Engineering Karjule harya, we would like to extend our heartiest thanks for accepting our invitation for workshop. Your workshop on 'Revolution in Automation' will be helpful to our students.

Thank you for your motivation and benefitted valuable guidance. We are expecting similar kind of cooperation in future.

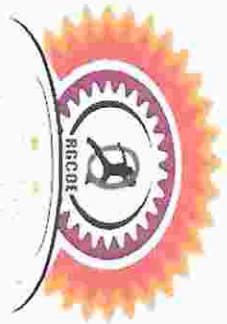
Sincerely,



HOD

Electrical Engineering

**H.O.D.**  
Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



# Rajiv Gandhi College of Engineering, Karjule Harya,

Tal.-Partner, Dist.-Ahmednagar, Pin:414304

Email id: [rajivgandhi.iot@gmail.com](mailto:rajivgandhi.iot@gmail.com)

[www.rgcoe.org](http://www.rgcoe.org)

## Certificate

This is to certify that Mr. / Ms KADAM NEHA DEEPAK has participated in **Industrial Automation PLC & SCADA** which is organized by Department of **Electrical Engineering** Dated **21th Sep 2021 To 25th September 2021.**

  
IQAC In-charge

Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Partner  
Dist. Ahmednagar-414304



  
PRINCIPAL

Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Partner, Dist. A. Nagar





# Rajiv Gandhi College of Engineering, Karjule Harya,

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Email id: [rajivgandhi.iot@gmail.com](mailto:rajivgandhi.iot@gmail.com)

[www.rgcoe.org](http://www.rgcoe.org)

## Certificate

This is to certify that Mr. / Ms MUNDHE VIKRAM ROHIDAS has participated in **Industrial Automation PLC & SCADA** which is organized by Department of **Electrical Engineering** Dated **21th Sep 2021 To 25th September 2021.**

*Parner*  
IQAC In-charge  
Rajiv Gandhi College of Engineering  
Karjule Haryana, Tal. Parner  
Dist. Ahmednagar-414304



*Parner*  
PRINCIPAL  
Rajiv Gandhi College of Engineering  
Karjule Haryana, Tal. Parner, Dist. Ahmednagar



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Email id: [rajivgandhi.iot@gmail.com](mailto:rajivgandhi.iot@gmail.com)

[www.rgcoe.org](http://www.rgcoe.org)

## Certificate

This is to certify that Mr. / Ms BAIRAGI ROHAN MANGALDAS has participated in **Industrial Automation PLC & SCADA** which is organized by Department of **Electrical Engineering** Dated **21th Sep 2021 To 25th September 2021.**

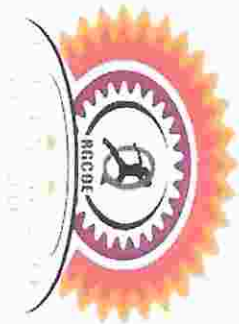
IQAC In-charge

Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Partner  
Dist. Ahmednagar-414304



PRINCIPAL

Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Partner, Dist. Ahmednagar



# Rajiv Gandhi College of Engineering, Karjule Harya,

Tal.-Parner, Dist.-Ahmednagar, Pin:414304

Email id: [rajivgandhi.iot@gmail.com](mailto:rajivgandhi.iot@gmail.com)

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## Certificate

This is to certify that Mr. / Ms BHAGWAT HRUSHIKESH RAJENDRA has participated in Industrial Automation PLC & SCADA which is organized by Department of Electrical Engineering Dated 21th Sep 2021 To 25th September 2021.

IQAC In-charge

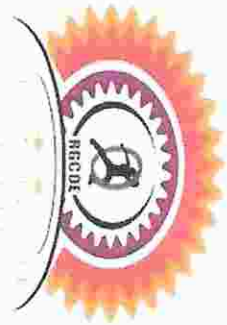
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[www.rgcoe.org](http://www.rgcoe.org)

## Certificate

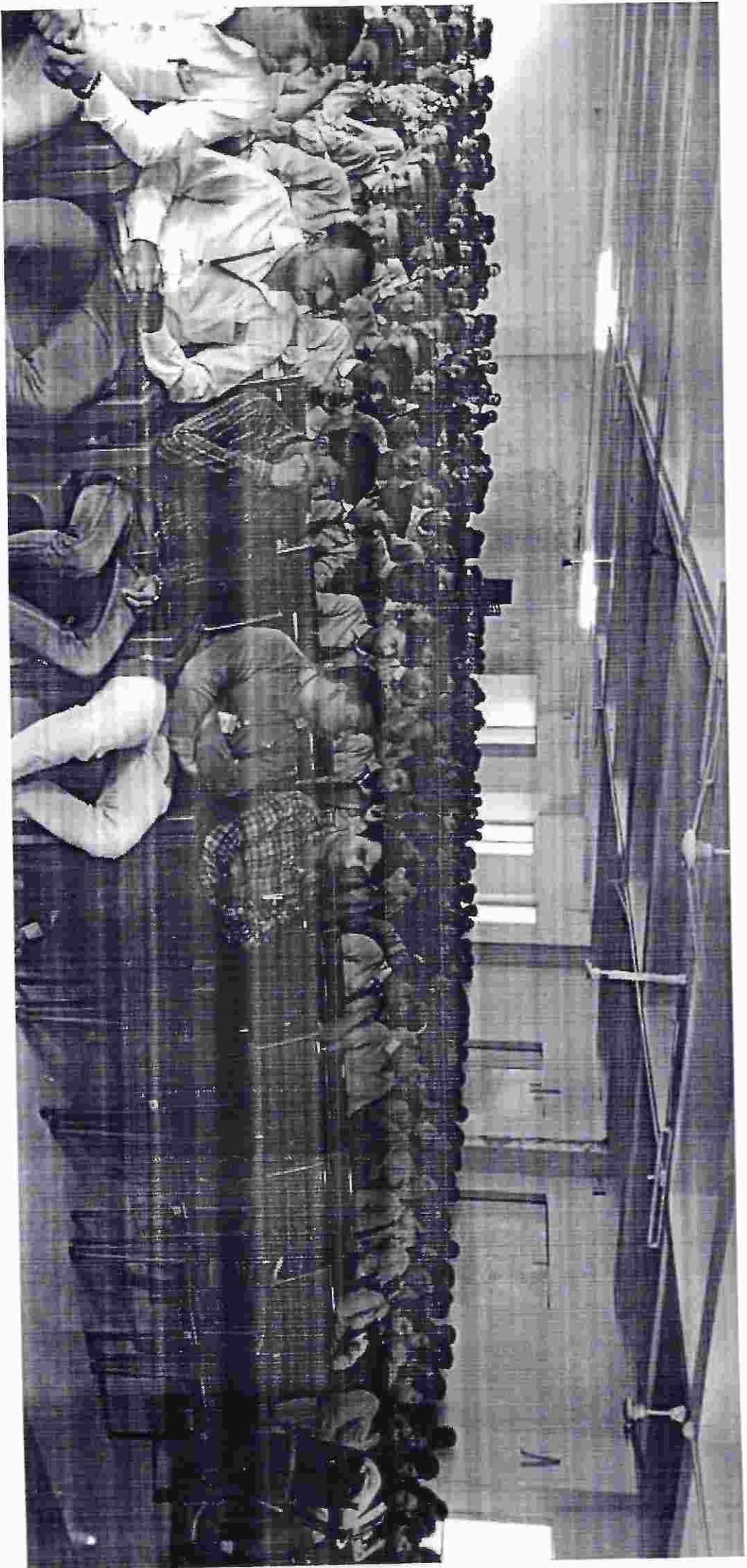
This is to certify that Mr. / Ms BHALDAND UMESH GORAKASHANATH has participated in **Industrial Automation PLC & SCADA** which is organized by Department of **Electrical Engineering** Dated **21th Sep 2021 To 25th September 2021.**

  
IOAC In-charge  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner  
Dist. Ahmednagar-414304

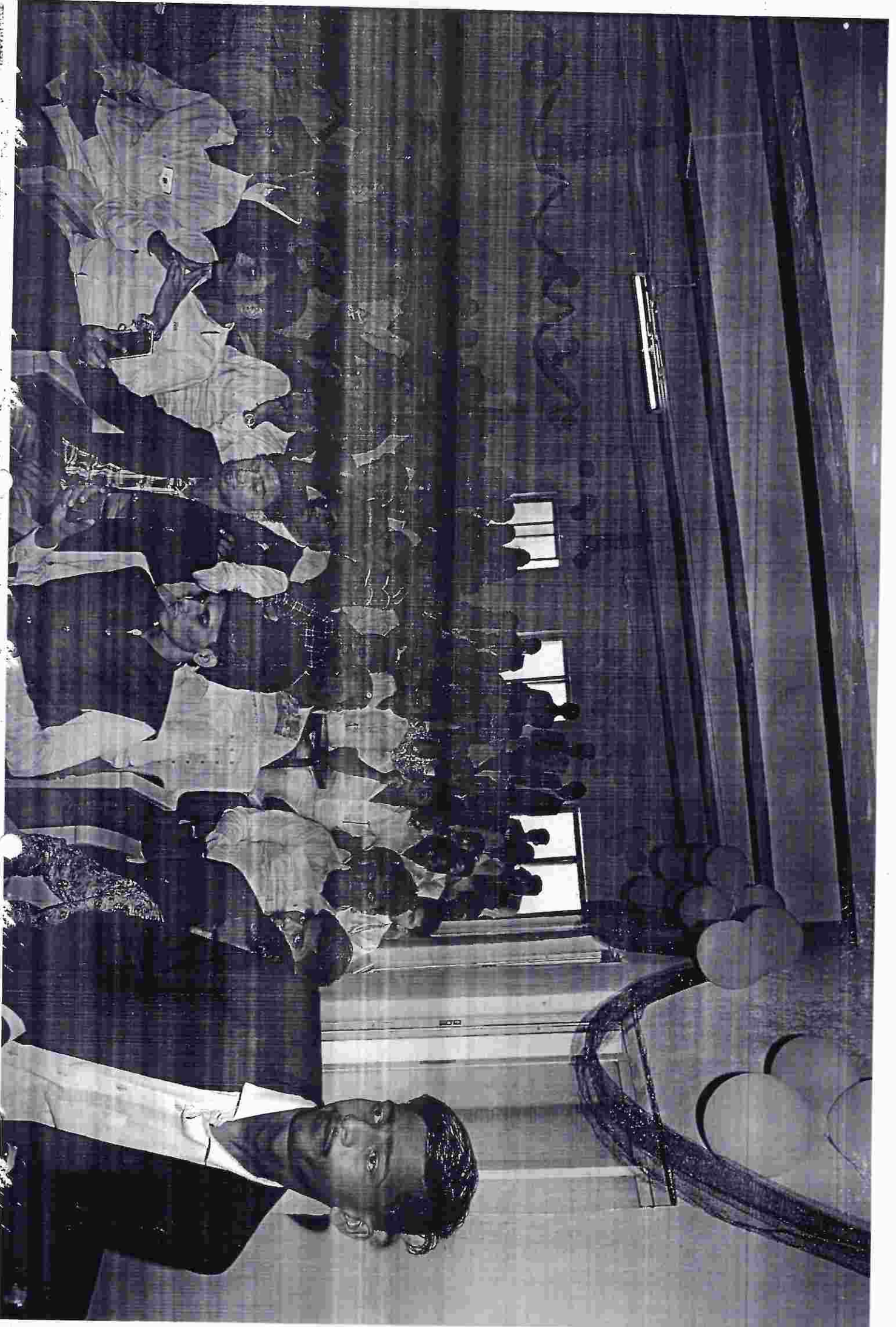


  
PRINCIPAL  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A. Nagar











## Attendance Work shop On Industrial Automation PLC & SCADA

### Class-BE2019PAT (ELECTRICAL)

SR.NO.	Name of student	Day-1	Day-2	Day-3	Day-4	Day-5
1	KADAM NEHA DEEPAK	Kadamba	Kadamba	Kadamba	Kadamba	Kadamba
2	MUNDHE VIKRAM ROHIDAS	W. K. R. R.	W. K. R. R.	W. K. R. R.	W. K. R. R.	W. K. R. R.
3	BAIRAGI ROHAN MANGALDAS	Roham	Roham	Roham	Roham	Roham
4	BHAGWAT HRUSHIKESH RAJENDRA	Bhiz	Bhiz	Bhiz	Bhiz	Bhiz
5	BHALDAND UMESH GORAKASHANATH	Umesh	Umesh	Umesh	Umesh	Umesh
6	BHOSALE DIVYA YUVRAJ	D. V. R.	D. V. R.	D. V. R.	D. V. R.	D. V. R.
7	DAGADE PRANAV DHANANJAY	Pranav	Pranav	Pranav	Pranav	Pranav
8	DONDE SAHIL PRABHAKAR	P. Sahil	P. Sahil	P. Sahil	P. Sahil	P. Sahil
9	GAIKWAD SAURABH SANJAY	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh
10	GAIKWAD YOGITA RAMDAS	Yogita	Yogita	Yogita	Yogita	Yogita
11	GANGURDE VIVEK CHANDRAKANT	G. V. C.	G. V. C.	G. V. C.	G. V. C.	G. V. C.
12	GARUD RUSHIKESH TATYASAHEB	R. T. S.	R. T. S.	R. T. S.	R. T. S.	R. T. S.
13	GHULE VIKAS SHANKAR	V. S.	V. S.	V. S.	V. S.	V. S.
14	HALNOR NILESH SANJAY	N. S.	N. S.	N. S.	N. S.	N. S.
15	INGLE GAYATRI RAMRAO	G. R.	G. R.	G. R.	G. R.	G. R.
16	JADHAV AMOL KISHOR	A. K.	A. K.	A. K.	A. K.	A. K.
17	KAMBLE SHRUTI RAVINDRA	S. R.	S. R.	S. R.	S. R.	S. R.
18	KHEDKAR SHUBHAM SOPAN	S. S.	S. S.	S. S.	S. S.	S. S.
19	LAKUDZODE SWAPNIL SUNIL	S. S.	S. S.	S. S.	S. S.	S. S.
20	MANDLIK VRUSHABH NIVRUTTI	M. V. N.	M. V. N.	M. V. N.	M. V. N.	M. V. N.
21	MORE SACHIN SAHEBRAO	M. S. S.	M. S. S.	M. S. S.	M. S. S.	M. S. S.
22	PALDE MOHAN ATMARAM	P. M. A.	P. M. A.	P. M. A.	P. M. A.	P. M. A.
23	PAWAR SAHIL BHIMA	P. S. B.	P. S. B.	P. S. B.	P. S. B.	P. S. B.
24	RANKHAMB VISHAL DILIP	R. V. D.	R. V. D.	R. V. D.	R. V. D.	R. V. D.
25	RAUTRAO NIKITA SANJAY	R. N. S.	R. N. S.	R. N. S.	R. N. S.	R. N. S.



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## Expert Session Feedback

Name of Student: Bhosale Divya

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Bhosale  
Sign of Student





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## Expert Session Feedback

Name of Student: *Dagad Prasad U*

Class: *T.E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*Prasad*  
Sign of Student



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## Expert Session Feedback

Name of Student: Dongre Sahil

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sahil  
Sign of Student



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## Expert Session Feedback

Name of Student: Gaikwad Saugabh

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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S.G.S  
Sign of Student





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## Expert Session Feedback

Name of Student: Gaikwad Jagita

Class: T.IE

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

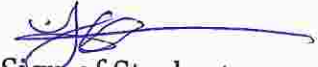
Excellent  Very good  Good  Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Ganigade Vilok

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Garud Rushikesh

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: *Ghullar Vikas*

Class: *T.E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*Vikas*  
Sign of Student



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## Expert Session Feedback

Name of Student: Hadape Nilosh

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: *Langhe Gagadhi*

Class: *T-E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*Gadgil*  
Sign of Student





Matoshri Shaikshanik Pratishthan's

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## Expert Session Feedback

Name of Student: Jadhav Anok

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Jadhav  
Sign of Student



Matoshri Shaikshanik Pratishthan's

# RAJIV GANDHI COLLEGE OF ENGINEERING

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## Expert Session Feedback

Name of Student: *Kamble Shachi*

Class: *T.E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*S.R.K*  
Sign of Student



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## Expert Session Feedback

Name of Student: *khedkar shubhara*

Class: *T.E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*Bitt*  
Sign of Student





Matoshri Shaikshani Pratishthan's

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Phone : 8975578687, 8975178687, 7447275353 Visit us at : www.rgoe.org / email : rajivgandhi.iol@gmail.com

## Expert Session Feedback

Name of Student: Lakadoda Swapnil

Class: T. E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *Mandlik Ujjeshabh*

Class: *T.E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

*OK*

*Mandlik Ujjeshabh*  
Sign of Student



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## Expert Session Feedback

Name of Student: *Mohe Sachin*

Class: *T-E*

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*MS*  
Sign of Student



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## Expert Session Feedback

Name of Student: Paldeep Mohan

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Pawar Sahil

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

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Pawar  
Sign of Student



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## Expert Session Feedback

Name of Student: Raakhanda Vishal

Class: T.E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Rautsao Nikita

Class: T-E

Name of Speaker: Mr. Sanchit Dhanve

Topic: Industrial Automation - PLC & SCADA

1) Understanding of the session delivered

Excellent     Very good     Good     Average

2) Interaction with the student

Excellent     Very good     Good     Average

3) Whether workshop was useful to you

Excellent     Very good     Good     Average

4) Overall impression

Excellent     Very good     Good     Average

Any Suggestions

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Date- 12-10-22

## Department of Electrical Engineering Activity Report

<b>Title</b>	Electrical Design Engineering
<b>Duration</b>	30 Hrs.
<b>Name of speaker</b>	Mr. Amit Wankhede
<b>Designation</b>	CEO
<b>Objectives</b>	The objective of this course is to provide the delegates the basic knowledge and skills in this discipline to facilitate faster learning curves while on the job.
<b>Beneficiary</b>	TE Electrical Engineering
<b>Number of Participants</b>	30
<b>Course Outcome</b>	The design, engineering and construction of industrial plants involve a multi-disciplinary team effort. The goal is to design safe and dependable processing facilities in a cost effective manner.



*Rajiv*  
HOD

Electrical Engineering

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar





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Date- 07/10/2022

## Invitation Letter

To,  
**Mr. Amit Wankhede**  
CEO  
Spandan Electricals,  
Pune

Subject: Invitation to Conduct Workshop on: Electrical Design Engineering.  
Respected sir,

The Department of Electrical Engineering is pleased to invite you to conduct workshop on Electrical Design Engineering in a month of October-2022. The aim of this session is to give knowledge about Design in electrical and deep learning in electrical machine design transformer design. Your experience will definitely help our students to discover new opportunities in the field of manufacturing.

We look forward to a positive response from you soon.

Thanking You.

With Regards,

  
HOD

Electrical Engineering

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar





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Date- 08/10/2022

## Department of Electrical Engineering

### Notice

All the third year Electrical Engineering Students are hereby informed that the Workshop is organized on Electrical Design Engineering having an Expert Mr. Amit Wankhede from Spandan Electricals Pvt. Ltd. Pune will be conducted on 12/10/2022 to 16/10/2022 by our college. The session shall be conducted in Class room. Hence all third year students are informed to attend the same.



*Suresh P*  
HOD

Electrical Engineering

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



Matoshri Shaikshanic Pratishthan's Ane

# Rajiv Gandhi College of Engineering


Karjule Harya, Tal-Parner, Dist-Ahmednagar: 414304

Department of Electrical Engineering

## Workshop on Electrical Design Engineering

### Syllabus

1. Fundamentals of Electrical Design Engineering & Load Estimation of Plants.
2. Preparation of Load Schedule.
3. Development of Single Line Diagrams & Control Schematics.
4. Introduction to Control Schematics.
5. Hands On Session on Electrical CAD

  
Course Coordinator  
Basha Qurghi



  
Signature of HOD

H.O.D.  
Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal.Parner, Dist.A'Nagar



Matoshri Shaikshanic Pratishthan's Ane

# Rajiv Gandhi College of Engineering

Karjule Harya, Tal-Parner, Dist-Ahmednagar: 414304

Department of Electrical Engineering

## Workshop on Non Destructive Testing

No.	Date	Topic Covered	Topic Duration
1	12/10/2022	Fundamentals of Electrical Design Engineering & Load Estimation of Plants.	6
2	13/10/2022	Introduction of P&ID, Preparation of Load Schedule.	6
3	14/10/2022	Development of Single Line Diagrams & Control Schematics	6
4	15/10/2022	Introduction to Control Schematics	6
5	16/10/2022	Introduction to Electrical Equipment's Selection Sizing, Hands On Session on Electrical CAD	6

Course Coordinator

Basha Q. Ushi

Signature of HOD

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal.Parner, Dist.A'Nagar







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Workshop on

## “Electrical Design Engineering”

### Introduction about the Workshop and Objectives:

The fortunes of the heavy electrical industry have been closely linked to the development of the power sector in India. The heavy electrical industry has under its purview power generation, transmission, and distribution and utilization equipment. These include turbo generators, boilers, turbines, transformers, switchgears and other allied items. This electrical equipment (transformers, switchgears, etc.) are used by almost all the sectors. Some of the major areas where these are used include power generation projects, petrochemical, refineries, chemical plants, integrated steel plants, non-ferrous metal units, etc.

The design, engineering and construction of industrial plants involve a multi-disciplinary team effort. The goal is to design safe and dependable processing facilities in a cost effective manner. The fact is that there are very few formal training programs that focus on design and engineering of Electrical systems of such big plants. Therefore, most of the required skills are acquired while on the job, reducing productivity and efficiency.

The objective of this course is to provide the delegates the basic knowledge and skills in this discipline to facilitate faster learning curves while on the job.

**Date:** From 12<sup>th</sup> to 16th October 2022

**Duration of Workshop:** 5 Days

**How many Students will participate in this workshop:** 30 ( 25 Boys & 05 Girls).

**Expert Persons: - Name of Person:-**Mr. Amit Wankhede

**Position:** CEO

**Company Name:** Spandan Electricals Pvt. Ltd. Pune.





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## Expert Session Feedback

Name of Student: Adarsh Rishikesh

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

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Adarsh Rishikesh  
Sign of Student



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## Expert Session Feedback

Name of Student: Bawake Karifanath

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: Bhalrao Gayatri

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: *Sugandhara Vidyaj*

Class: *TE*

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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*[Signature]*  
Sign of Student



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## Students Feedback Analysis

Number of Students present:- 30

Number students filled the feedback :- 30

1. Understanding the session delivered.
2. Interaction with the student.
3. Whether workshop was useful to you
4. Overall impression.

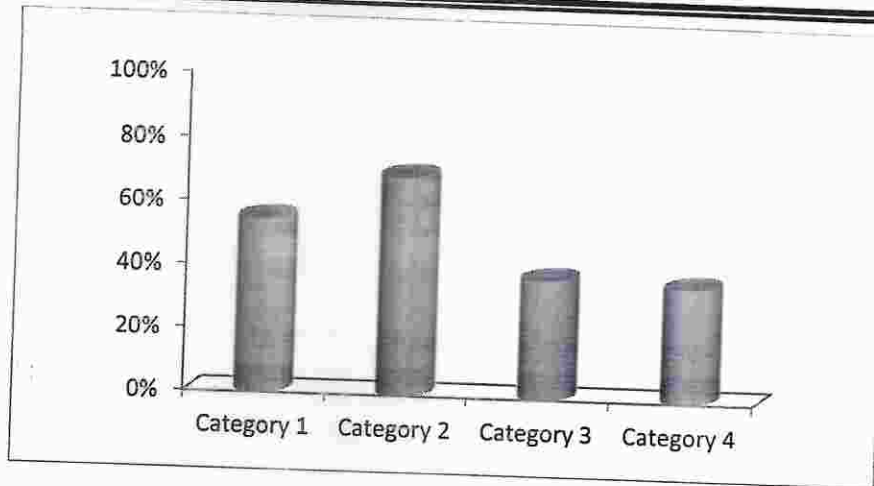
	Excellent	Very Good	Good	Average
1	20	10	NIL	NIL
2	15	10	05	NIL
3	15	15	NIL	NIL
4	20	10	NIL	NIL



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Comments :-

NIL

Observation :-

OK

Action Taken:-

NIL

Coordinator

Basha @ Ugeshi

HOD

Electrical Dept.

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A' Nagar



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## Expert Feedback Form

Respected Sir please gives your Valuable Feedback

Emil id. [Spndanelectricals@gmail.com](mailto:Spndanelectricals@gmail.com)

Name :- Amit Wankhede

Organization :- Spandan Electricals

Designnation :- CEO

Topic of Workshop :- Electrical Design Engineering

Sr.no.	Description	Excellent	Very Good	Good	Average
1.	Cooperation from faculty/dept/institute	✓			
2.	Audio/Video System arrangement	✓			
3.	Content understanding level of students		✓		
4.	Interaction of student		✓		
5.	Level of question asked by the students	✓			
6.	Overall rating	✓			

Is there any additional feedback that you would like to offer?





Matoshri Shaikshanik Pratishthan's

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## Letter of Thanks

To,

Mr. Amit Wankhede

CEO,

Spandan Electricals Pvt. Ltd.,

Pune.

Dear Sir,

On behalf of Department of Electrical Engineering, Rajiv Gandhi College of Engineering, Karjule Harya, we would like to extend our heartiest thanks for accepting our invitation for workshop. Your workshop on "Electrical Design Engineering" will be helpful to our students.

Thank you for your motivation and benefitted valuable guidance. We are expecting similar kind of cooperation in future.

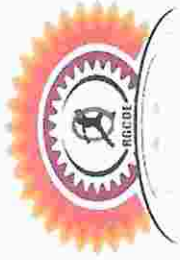
Sincerely,

  
HOD

Electrical Engineering

H.O.D.

Department of Electrical Engineering  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner, Dist. A'Nagar



# Rajiv Gandhi College of Engineering, Karjule Harya,

Tal.-Parner, Dist.-Ahmednagar, Pin:414304

Email id: rajivgandhi.iot@gmail.com

www.rgcoe.org

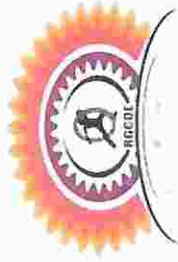
## Certificate

This is to certify that Mr. / Ms. ABHIJIT RAMKRUSHNA VIROLE has participated  
in **Electrical Design Engineering** which is organized by Department of **Electrical  
Engineering** Dated **12 Oct. 2022 To 16 Oct.2022.**

**IQAC In-charge**  
Rajiv Gandhi College of Engineering  
Karjule Harya, Tal. Parner,  
Dist. Ahmednagar-414304



**PRINCIPAL**  
Rajiv Gandhi College of Engineering,  
Karjule Harya, Tal. Parner, Dist. A. Nagar



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Email id: rajivgandhi.iot@gmail.com

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## Certificate

This is to certify that Mr. / Ms. ADMANE RISHIKESH ASHOK has participated in

**Electrical Design Engineering** which is organized by Department of **Electrical Engineering**

**Dated 12 Oct. 2022 To 16 Oct.2022.**

**IQAC In-charge**

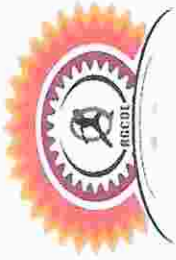
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Dist. Ahmednagar-414304



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Karjule Harya, Tal. Parner, Dist. A. Nagar





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Email id: rajivgandhi.iot@gmail.com

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## Certificate

This is to certify that Mr. / Ms. **BAWAKE KANIFANATH PRABHAKAR** has participated in **Electrical Design Engineering** which is organized by Department of **Electrical Engineering** Dated **12 Oct. 2022 To 16 Oct. 2022.**

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Dist. Ahmednagar-414304



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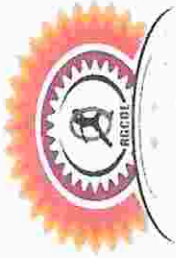
## Certificate

This is to certify that Mr. / Ms. **BHALERAO GAYATRI EKNATH** has participated  
in **Electrical Design Engineering** which is organized by Department of **Electrical  
Engineering** Dated **12 Oct. 2022 To 16 Oct.2022.**

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# Rajiv Gandhi College of Engineering, Karjule Harya,

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Email id: rajivgandhi.iot@gmail.com

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## Certificate

This is to certify that Mr. / Ms. **BHANDARE RUSHIKESH ANIL** has participated in **Electrical Design Engineering** which is organized by Department of **Electrical Engineering**  
**Dated 12 Oct. 2022 To 16 Oct.2022.**

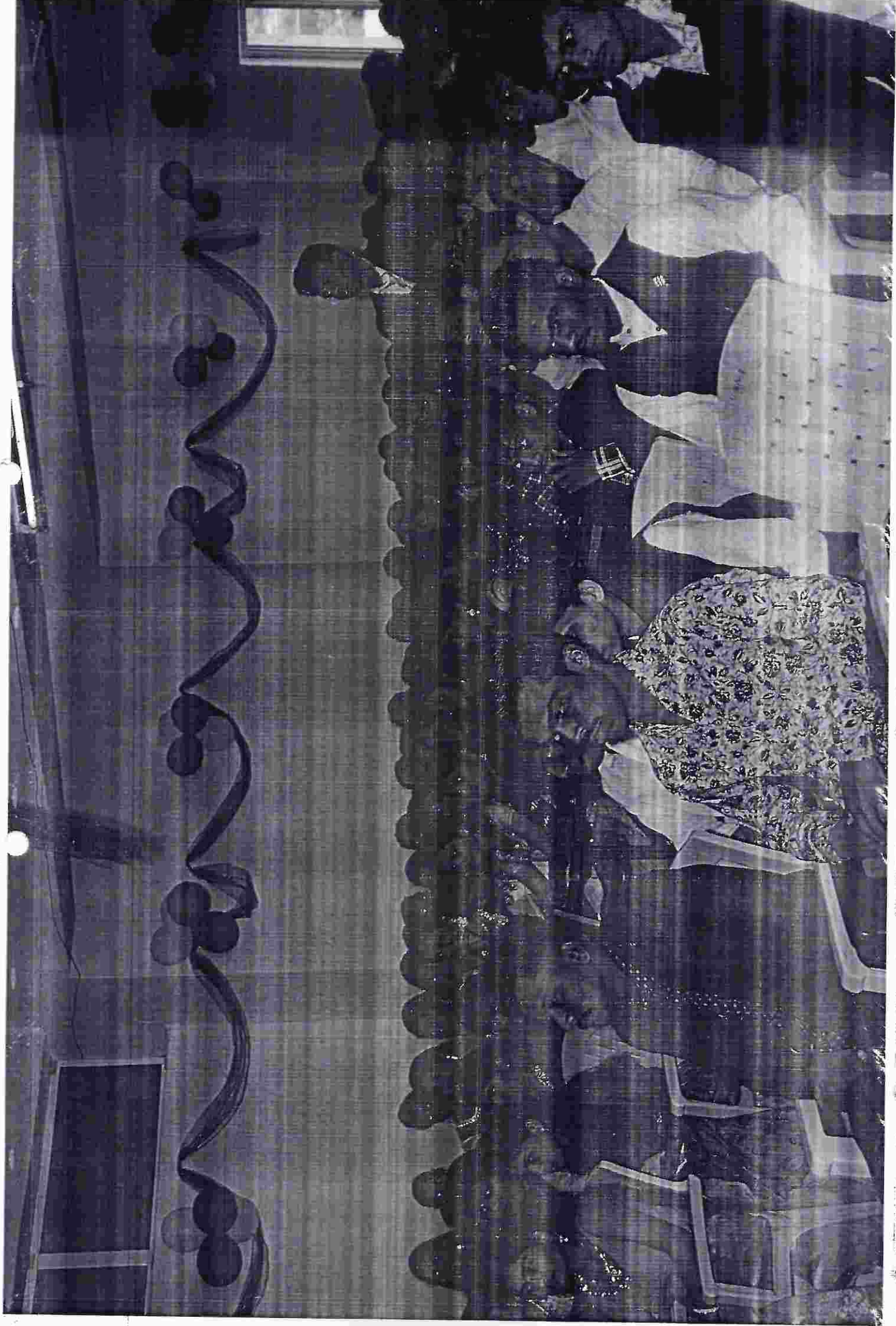
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Dist. Ahmednagar-414304



**PRINCIPAL**

Rajiv Gandhi College of Engineering  
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## Attendance

Class-TE Electrical Dept.

SR.NO.	Name of student	Day-1	Day-2	Day-3	Day-4	Day-5
1	ABHIJIT RAMKRUSHNA VIROLE	Present	Present	Present	Present	Present
2	ADMANE RISHIKESH ASHOK	Absent	Absent	Absent	Absent	Absent
3	BA WAKE KANIFANATH PRABHAKAR	Absent	Absent	Absent	Absent	Absent
4	BHALERAO GAYATRI EKNATH	R.A.B	R.A.B	R.A.B	R.A.B	R.A.B
5	BHANDARE RUSHIKESH ANIL	Absent	Absent	Absent	Absent	Absent
6	BHANDARE SURAJ RAJENDRA	Absent	Absent	Absent	Absent	Absent
7	BHARSAKLE SANIKA ANIL	Absent	Absent	Absent	Absent	Absent
8	BHOR RUSHIKESH KAILAS	Absent	Absent	Absent	Absent	Absent
9	BHURKUDE SAMEER DIGAMBAR	Absent	Absent	Absent	Absent	Absent
10	DHANWATE CHAITANYA NAVANATH	Absent	Absent	Absent	Absent	Absent
11	DHAWALE SHREYASH PADMAKAR	Absent	Absent	Absent	Absent	Absent
12	GANGURDE KOMAL DIPAK	Absent	Absent	Absent	Absent	Absent
13	JADHAV RUSHIKESH BHAUSAHEB	Absent	Absent	Absent	Absent	Absent
14	JAWALE DAULAT LILADHAR	Absent	Absent	Absent	Absent	Absent
15	KALE SATYAJIT NITIN	Absent	Absent	Absent	Absent	Absent

16	KALE SHRIKANT UDDHAV	Kale.s.u	Kale.s.u	Kale.s.u	Kale.s.u	Kale.s.u	Kale.s.u
17	KSHIRSAGAR DATTATRYA BHAGWAN	Kelish	Kelish	Kelish	Kelish	Kelish	Kelish
18	LUND SHUBHAM HARESH	shubh	shubh	shubh	shubh	shubh	shubh
19	MATE TUSHAR JAYRAM	M	M	M	M	M	M
20	MAVALE SHUBHAM BALASAHEB	S.H	S.H	S.H	S.H	S.H	S.H
21	MC.F ROHIT RAJENDRA	R.R	R.R	R.R	R.R	R.R	R.R
22	MORE SURAJ LALASAHEB	S.M	S.M	S.M	S.M	S.M	S.M
23	PATIL CHETAN DEVIDAS	Mee	Mee	Mee	Mee	Mee	Mee
24	PATIL ROHIT JAGANNATH	PATIL	PATIL	PATIL	PATIL	PATIL	PATIL
25	PAWAR PUNAM RAM	PAWAR.P	PAWAR.P	PAWAR.P	PAWAR.P	PAWAR.P	PAWAR.P
26	PAWAR SAGAR ADHIKRAO	sagar	sagar	sagar	sagar	sagar	sagar
27	PURI SHEKHAR DILIP	PUR	PUR	PUR	PUR	PUR	PUR
28	RAUT ASHISH DINKAR	ARAT	ARAT	ARAT	ARAT	ARAT	ARAT
29	REKHI VEDANT MILIND	R	R	R	R	R	R
30	SANGAMWAR VIJAY LAXMANRAO	S	S	S	S	S	S



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## Expert Session Feedback

Name of Student: Bhaodare Roushikosh

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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R.A.B  
Sign of Student





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## Expert Session Feedback

Name of Student: Bhagadara surate

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent  Very good  Good  Average

2) Interaction with the student

Excellent  Very good  Good  Average

3) Whether workshop was useful to you

Excellent  Very good  Good  Average

4) Overall impression

Excellent  Very good  Good  Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Bhaskare Smitika

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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BSA  
Sign of Student



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## Expert Session Feedback

Name of Student: Bhore Rishikesh

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good


Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: Bhujaraj Somnath

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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SOMNATH  
Sign of Student



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## Expert Session Feedback

Name of Student: Dhawal Chaitanya Class: PE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Dhawale Sheegash

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: Giagurto Karad

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: *Jadhav Aushikosh*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Jawalra Sachat

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: *Kadhar Sathyaadith*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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## Expert Session Feedback

Name of Student: *Kalra Shaikaraj*

Class: *TE*

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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## Expert Session Feedback

Name of Student: Kshitesh sagar Dattadega Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: UAD Shubham

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: *matoshri shaikshani*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: *anvudra shubham*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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Vitthalnagar, Kokate Vasti, Karjule Harya, (Takali Dhokeshwar) Nagar Kalyan Highway, Tal. Parner, Dist. Ahmednagar, Pin-414304.

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## Expert Session Feedback

Name of Student: *majeer Ashit*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



Matoshri Shaikshanik Pratishthan's

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## Expert Session Feedback

Name of Student: *MOEN SURESH*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: *Ratid chetana*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Patil Rohit

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Rohit Pulgaon

Class: TE

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: *Palwade Sadare*

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student





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## Expert Session Feedback

Name of Student: Puri Rushikosh

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent       Very good       Good       Average

2) Interaction with the student

Excellent       Very good       Good       Average

3) Whether workshop was useful to you

Excellent       Very good       Good       Average

4) Overall impression

Excellent       Very good       Good       Average

Any Suggestions

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Sign of Student



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## Expert Session Feedback

Name of Student: Amit Ashish

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



Matoshri Shaikshanik Pratishthan's

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## Expert Session Feedback

Name of Student: Sakshi Adalt

Class:

Name of Speaker: Mr. Amit Wankhede

Topic: Electrical Design Engineering

1) Understanding of the session delivered

Excellent

Very good

Good

Average

2) Interaction with the student

Excellent

Very good

Good

Average

3) Whether workshop was useful to you

Excellent

Very good

Good

Average

4) Overall impression

Excellent

Very good

Good

Average

Any Suggestions

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Sign of Student



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Sign of Student

## Expert Feedback Form

Respected Sir please gives your valuable feedback

Emil id. [spandanelectricals@gmail.com](mailto:spandanelectricals@gmail.com)

Name :- Amit Wankhede

Organization :- Spandan Electricals Pvt. Ltd. Pune.

Designation :- CEO

Topic of Workshop :- Electrical Design Engineering

Sr.no.	Description	Excellent	Very Good	Good	Average
1.	Cooperation from faculty/dept/institute				
2.	Audio/Video System arrangement				
3.	Content understanding level of students				
4.	Interaction of student				
5.	Level of question asked by the students				
6.	Overall rating				

Is there any additional feedback that you would like to offer?

Authority Sign.