



Date- 27/02/2023

Department of Mechanical Engineering
Activity Report

Title	Industrial Automation and Control
Duration	32 Hrs.
Name of speaker	Mr. Chittaranjan Mahajan
Designation	CEO, Dolphin Lab ,Pune
Objectives	The technology of industrial automation and control, which is commonly used in factories of all kinds for both discrete and continuous manufacturing, is introduced in this course. Discrete and continuous variable control systems, industrial communication, embedded computing, CNC machines, hydraulic, pneumatic, and electric actuators, measurement systems, including sensors and signal conditioning, and many other related topics are covered.
Beneficiary	BE Mechanical Engineering
Number of Participants	56
Course Outcome	Student shall be fulfill about knowledge of automation used in industry. Student will understand the control systems, industrial communication, embedded computing, CNC machines, hydraulic, pneumatic, and electric actuators, measurement systems, including sensors and signal conditioning.

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 Mechanical Engineering Department
 R.G.C.O.E., Karjule Harya





Date-09/02/2023

Invitation Letter

To,
Mr. Chittaranjan Mahajan
CEO, Dolphin Lab ,
Pune.

Subject: Invitation to Conduct Workshop on: **Industrial Automation and Control**.

Respected sir,

The Department of Mechanical Engineering is pleased to invite you to conduct workshop on **Industrial Automation and Control** in a month of **February-2023**. The aim of this session is to give knowledge about Industrial Automation and Control and deep learning about automation to fulfill the industry requirements. 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,

Received



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Date- 13/02/2023

Department of Mechanical Engineering

Notice

All the third year Mechanical Engineering Students are hereby informed that the Workshop is organized on **Industrial Automation and Control** having an Expert **Mr. Chittaranjan Mahajan** from **CEO, Dolphin Lab, Pune** will be conducted on 22nd Feb 2023 to 26th Feb 2023 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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No.	Date	Topic Covered	Topic Duration (Hrs)
Module I			
1	22/02/ 2023	Introduction	1
2	22/08/2022	Architecture of Industrial Automation Systems	1
Module II			
3	22/02/ 2023	Measurement Systems Characteristics	1
4	22/02/ 2023	Measurement Systems Characteristics(Cont.)	1
5	22/02/ 2023	Data Acquisition Systems	1
6	22/02/ 2023	Data Acquisition Systems(Cont.)	1
Module III			
7	23/02/ 2023	Introduction to Automatic Control	1
8	23/02/ 2023	P-I-D Control	1
9	23/02/ 2023	PID Control Tuning	1
10	23/02/ 2023	Feedforward Control Ratio Control	1
11	23/02/ 2023	Time Delay Systems and Inverse Response Systems	1
12	23/02/ 2023	Concluding Lesson on Process Control (Self-study)	1
13	23/02/ 2023	Introduction to Sequence Control, PLC , RLL	1
14	24/02/ 2023	Sequence Control. Scan Cycle, Simple RLL Programs	1
15	24/02/ 2023	Sequence Control. Scan Cycle, Simple RLL Programs(Cont.)	1
16	24/02/ 2023	Sequence Control. More RLL Elements, RLL Syntax	1
17	24/02/ 2023	A Structured Design Approach to Sequence Control	1





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Rajiv Gandhi College of Engineering

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

Department of Mechanical Engineering

Workshop on Industrial Automation and Control

Syllabus

Module I

1. Introduction
2. Architecture of Industrial Automation Systems

Module II

3. Measurement Systems Characteristics
4. Data Acquisition Systems

Module III

5. Introduction to Automatic Control
6. P-I-D Control
7. PID Control Tuning
8. Feedforward Control Ratio Control
9. Time Delay Systems and Inverse Response Systems
10. Introduction to Sequence Control, PLC , RLL
11. Sequence Control. Scan Cycle, Simple RLL Programs
12. Sequence Control. More RLL Elements, RLL Syntax
13. A Structured Design Approach to Sequence Control
14. PLC Hardware Environment

Module IV

15. Flow Control Valves
16. Hydraulic Control Systems – I
17. Hydraulic Control Systems – II
18. Industrial Hydraulic Circuit
19. Pneumatic Control Systems – I
20. Pneumatic Systems – II
21. Energy Savings with Variable Speed Drives
22. Introduction To CNC Machines

Module V

23. The Fieldbus Network – I
24. Higher Level Automation Systems


Course Coordinator




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

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18	24/02/ 2023	PLC Hardware Environment	1
19	24/02/ 2023	PLC Hardware Environment(Cont.)	1
Module IV			
20	25/02/ 2023	Flow Control Valves	1
21	25/02/ 2023	Flow Control Valves(Cont.)	1
22	25/02/ 2023	Hydraulic Control Systems – I	1
23	25/02/ 2023	Hydraulic Control Systems – II	1
24	25/02/ 2023	Industrial Hydraulic Circuit	1
25	25/02/ 2023	Pneumatic Control Systems – I	1
26	25/02/ 2023	Pneumatic Systems – II	1
27	26/02/ 2023	Energy Savings with Variable Speed Drives	1
28	26/02/ 2023	Introduction To CNC Machines	1
29	26/02/ 2023	Introduction To CNC Machines(Cont.)	1
Module V			
30	26/02/ 2023	The Fieldbus Network – I	1
31	26/02/ 2023	Higher Level Automation Systems	1
32	26/02/2023	Course Review and Conclusion (Self-study)	1
Total Hrs. Used			32


Course Coordinator


Signature of HOD

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Mechanical Engineering Department
R.G.C.O.E., Karjule Harya





Expert Session Feedback

Name of Student: *Bhojane Swapnil Shivaji* Class: **BE Mechanical Engg.**

Name of Speaker: **Mr. Chittaranjan Mahajan**

Topic: **Industrial Automation And Control**

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

Suggestion for importance of waste management.

Shivaji
Sign of Student





Expert Session Feedback

Name of Student: *Dharmal Ajinkya Paraji*

Class: **BE Mechanical Engg.**

Name of Speaker: **Mr. Chittaranjan Mahajan**

Topic: **Industrial Automation And Control**

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

Expose the latest advancements technology.

Dharmal
Sign of Student





Expert Session Feedback

Name of Student: Gode Mahesh Nandy

Class: BE Mechanical Engg.

Name of Speaker: Mr. Chittaranjan Mahajan

Topic: Industrial Automation And Control

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

Introduce principles of sustainable design.

Mahesh. Gode
Sign of Student





Expert Session Feedback

Name of Student: More Vishal Haqibhau

Class: **BE Mechanical Engg.**

Name of Speaker: **Mr. Chittaranjan Mahajan**

Topic: **Industrial Automation And Control**

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

Develop innovative solutions

More
Sign of Student



Students Feedback Analysis

Workshop on "Industrial Automation and Control"

Total No. of Student Present: 56

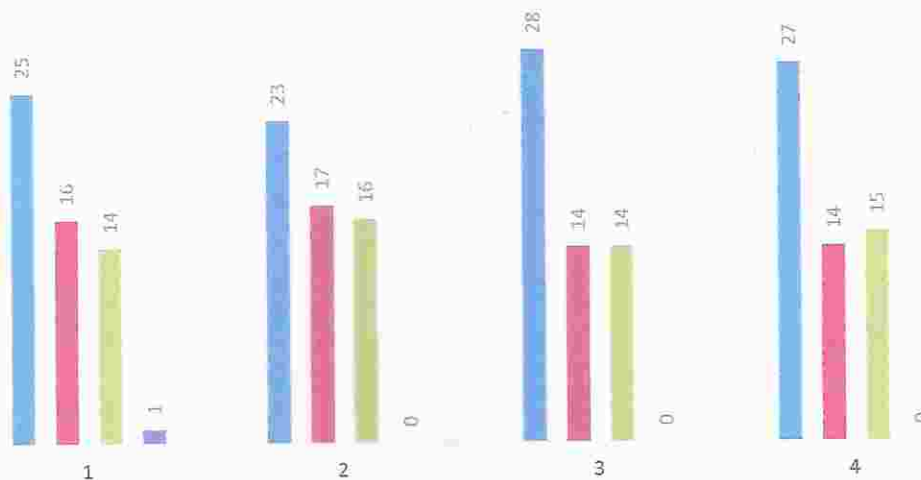
No. of Student filled Feedback: 56

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

	Excellent	Very Good	Good	Average
1	25	16	14	1
2	23	17	16	Nil
3	28	14	14	Nil
4	27	14	15	Nil

CHART TITLE

■ Excellent ■ Very Good ■ Good ■ Average





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

Chart Title



Comment:

OK

Observation:

Nil -

Action Taken

Nil -

Course Coordinator

Signature of HOD

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





Date-26/02/2020

Expert Feedback Form

Respected sir/madam, please give your valuable feedback

Name:- Mr. Chittaranjan Mahajan

Organization:- Dolphin Lab, Pune

Designation:-CEO

Contact No.:-

Topic of Workshop:- Industrial Automation and Control

Sr. No	Description	Excellent	Very Good	Good	Adequate
1	Audio/video system arrangement		✓		
2	Cooperation from faculty/dept./institute	✓			
3	Content understanding level of students		✓		
4	Interaction of students		✓		
5	Level of questions asked by the students			✓	
6	Overall rating		✓		

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

Improve seating arrangement as well as for students & audio quality of sound system.



Name & Sign of Authority
Mr. C. Mahajan



Date- 26/02/2021

Letter of Thanks

To,

Mr. Chittaranjan Mahajan

CEO, Dolphin Lab ,

Pune.

Dear Sir,

On behalf of Department of Mechanical 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 “**Industrial Automation and Control**” 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,

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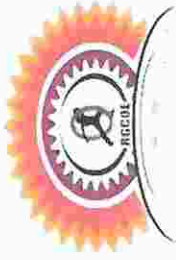
**Mechanical Engineering Department
R.G.C.O.E., Karjule Harya**



Attendance Sheet

Class-BE(MECH)-2022-23

SR.NO	Name of student	Day-1	Day-2	Day-3	Day-4	Day-5
1	MORE VISHAL HARIBHAU	More	More	More	More	More
2	AGARKAR ASHUTOSH SUDHIR	A.S.A	A.S.A	A.S.A	A.S.A	A.S.A
3	AHER TUSHAR ANIL	31 Nov	31 Nov	31 Nov	31 Nov	31 Nov
4	AJABE SAGAR KAILAS	Sagar	Sagar	Sagar	Sagar	Sagar
5	AKHANDE AKASH PRAKASH	A.Kash	A.Kash	A.Kash	A.Kash	A.Kash
6	ASWAR PAYAL GOVIND	A.P.	A.P.	A.P.	A.P.	A.P.
7	AUTI GAURAV ANIL	Auti	Auti	Auti	Auti	Auti
8	BADGUJAR UMESH SURESH	Umesh	Umesh	Umesh	Umesh	Umesh
9	BATULE BHARAT POPAT	B.P.B	B.P.B	B.P.B	B.P.B	B.P.B
10	BHASKAR AMAR SHRIKANT	Amar	Amar	Amar	Amar	Amar
11	BHOGADE OMKAR MAHADEO	Omkar	Omkar	Omkar	Omkar	Omkar
12	BHOJANE SWAPNIL SHIVAJI	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil
13	BORASE AMOL BAHGWANTRAO	A. Amol	A. Amol	B. Amol	B. Amol	B. Amol
14	DHAS PAVANKUMAR SUBHASH	Pavankumar	Pavankumar	Pavankumar	Pavankumar	Pavankumar
15	DHUMAL AJINKYA PARAJI	Dhumal	Dhumal	Dhumal	Dhumal	Dhumal
16	DHUMAL SHUBHAM RAJENDRA	D. Shubham	D. Shubham	D. Shubham	D. Shubham	D. Shubham
17	GAIKWAD LOKESH RAJAN	L.R.	L.R.	L.R.	L.R.	L.R.
18	GAWADE GAYATRI GOPICHAND	Gawade	Gawade	Gawade	Gawade	Gawade
19	GODE MAHESH NANDU	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh



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Email id: rajivgandhi.iot@gmail.com

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Certificate

This is to certify that **Mr. / Ms MORE VISHAL HARIBHAU** has participated in **Industrial Automation and Control** which is organized by **Department of Mechanical Engineering Dated 22 Feb. 2023 To 26 Feb.2023.**



IQAC In-charge

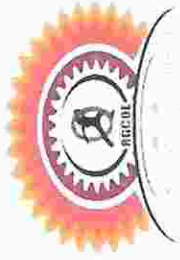
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This is to certify that **Mr. / Ms AGARKAR ASHUTOSH SUDHIR** has participated in **Industrial Automation and Control** which is organized by **Department of Mechanical Engineering Dated 22 Feb. 2023 To 26 Feb.2023.**

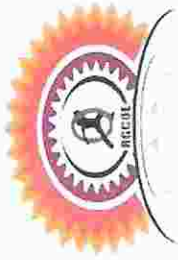
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Dist. Ahmednagar 414304



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This is to certify that Mr. / Ms **AHER TUSHAR ANIL** has participated in
Industrial Automation and Control which is organized by Department of
Mechanical Engineering Dated 22 Feb. 2023 To 26 Feb.2023.

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Certificate

This is to certify that Mr. / Ms **AJABE SAGAR KAILAS** has participated
in **Industrial Automation and Control** which is organized by Department of
Mechanical Engineering Dated 22 Feb. 2023 To 26 Feb.2023.

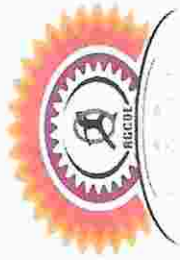
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Certificate

This is to certify that **Mr. / Ms AKHANDE AKASH PRAKASH** has participated in **Industrial Automation and Control** which is organized by **Department of Mechanical Engineering** Dated **22 Feb. 2023 To 26 Feb.2023.**

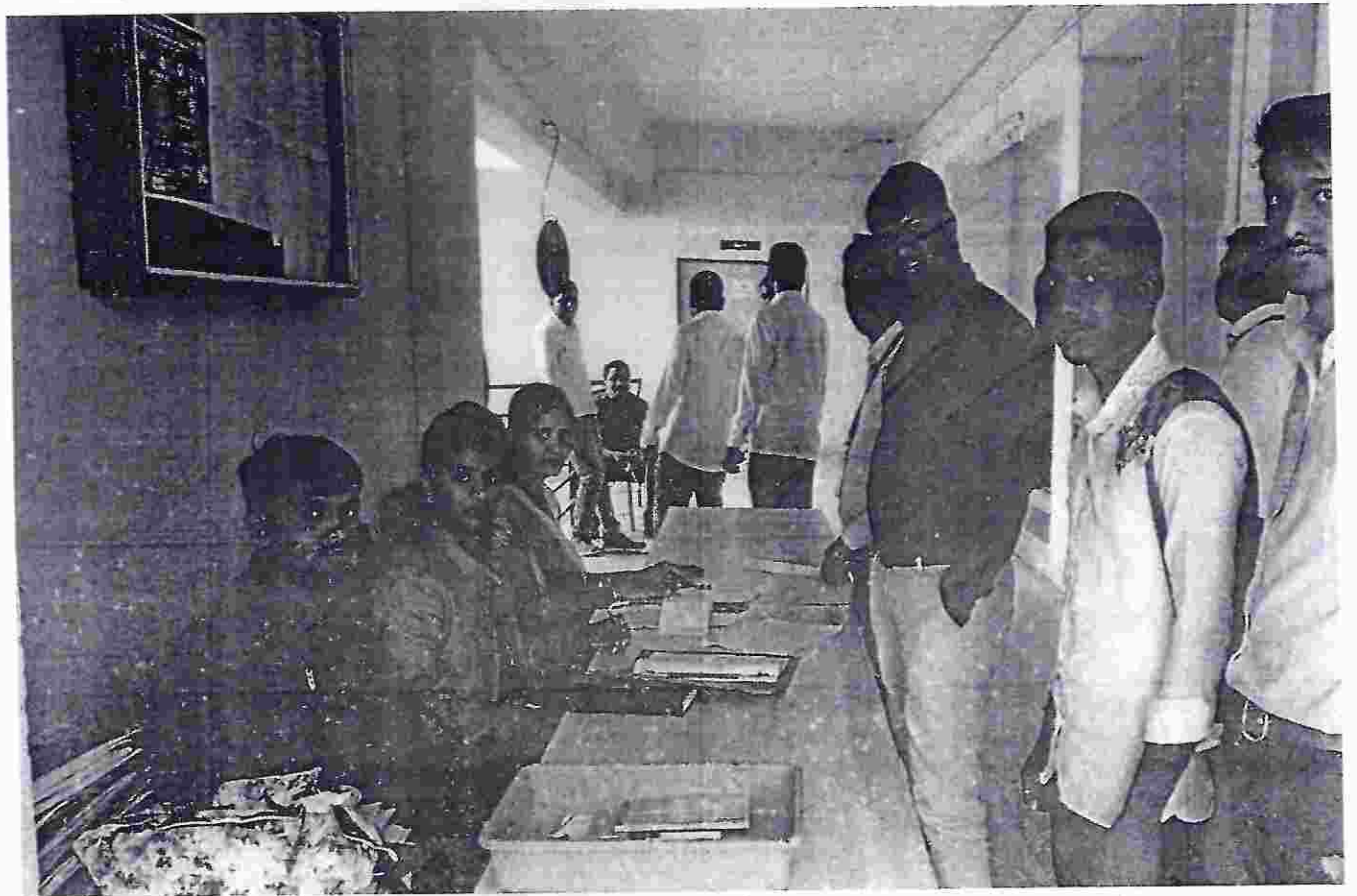
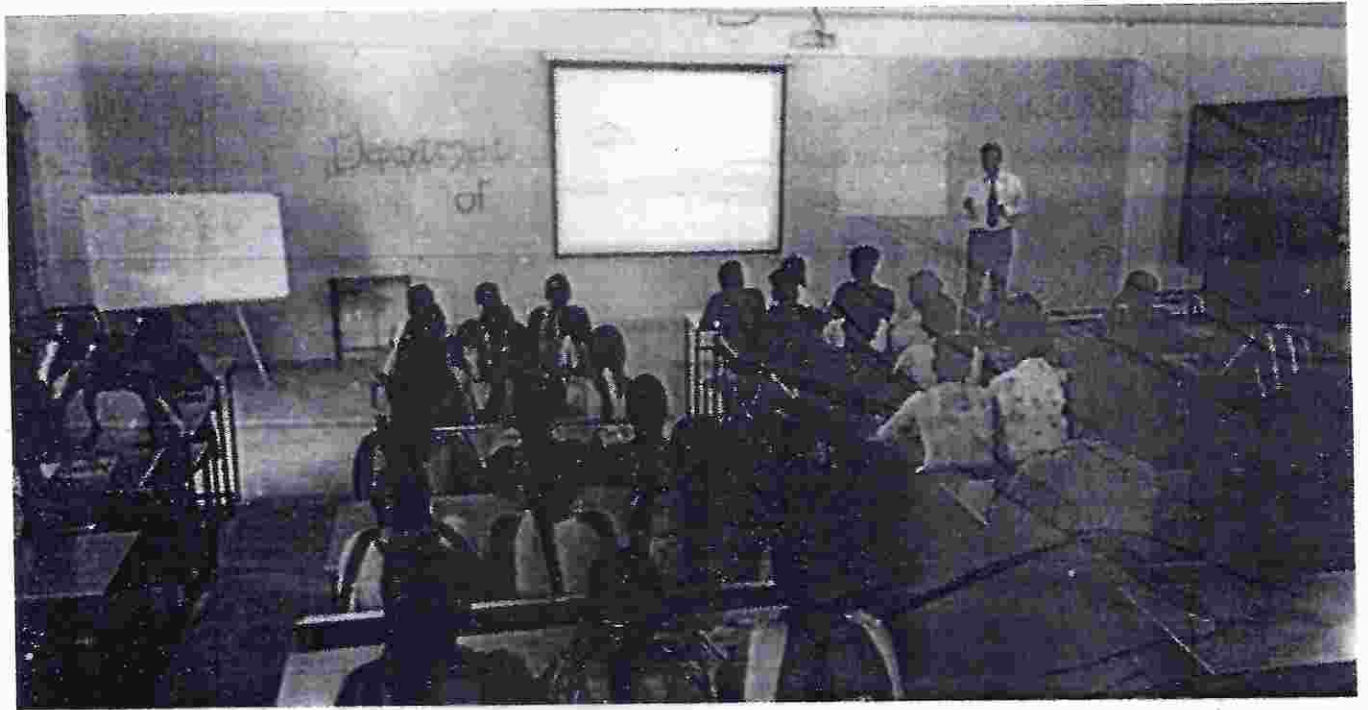
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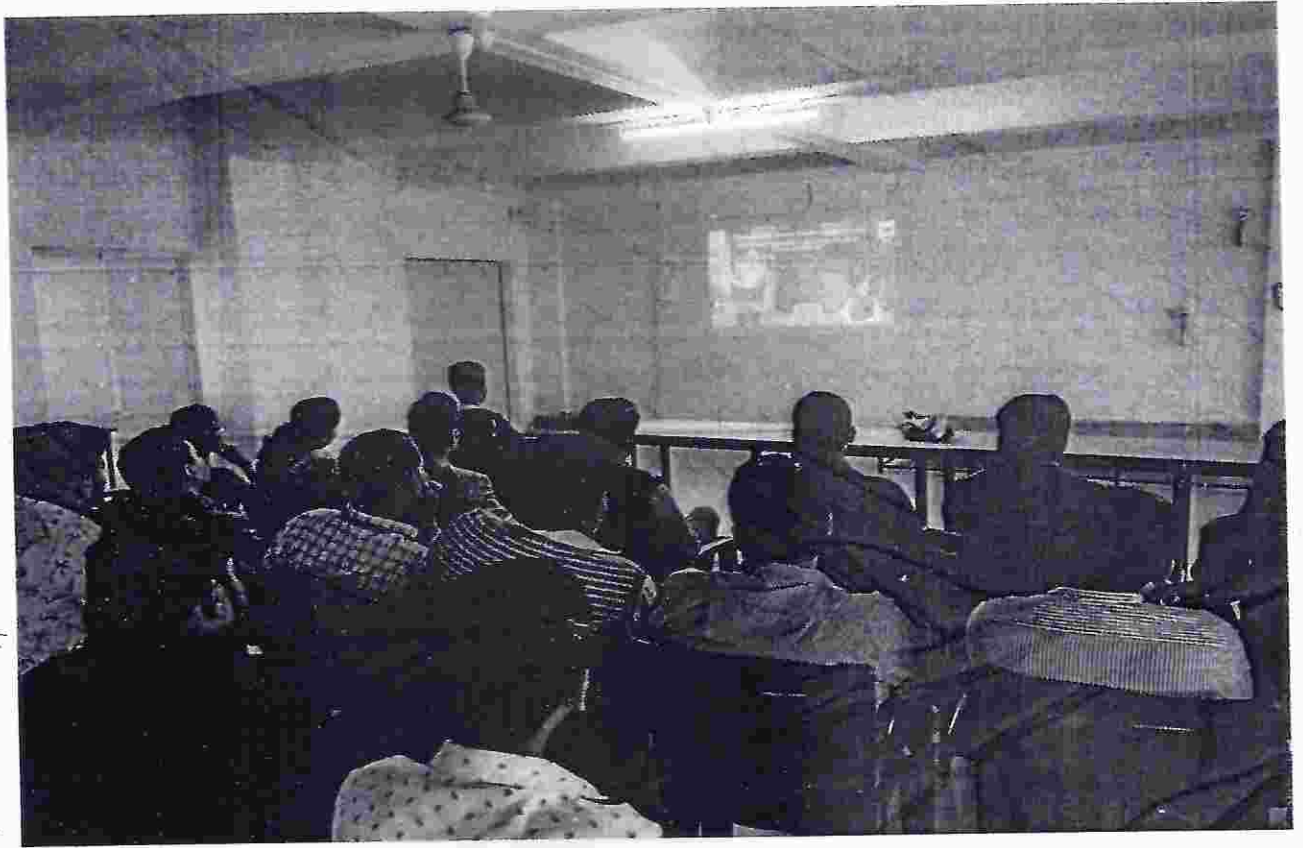
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Date- 25/8/2022

Department of Mechanical Engineering Activity Report

Title	Non Destructive testing
Duration	31 Hrs.
Name of speaker	Dr. Amol Lokhande
Designation	Professor, Sandip University, Nashik.
Objectives	To inspect a component in a safe, reliable, and cost-effective manner without causing damage to the equipment or shutting down plant operations. This is in contrast to destructive testing where the part being tested is damaged or destroyed during the Inspection process.
Beneficiary	TE Mechanical Engineering
Number of Participants	61
Course Outcome	Student shall be able to find the internal flaws in the material by NDT and take measures to eliminate them. The student shall be able to solve various problems encountered like leakage, cracks, blowholes etc with the manufacturing process by analyzing the



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Date- 10/08/2022

Invitation Letter

To,
Dr. Amol Lokhande
Professor,
Sandip University,
Nashik

Subject: Invitation to Conduct Workshop on: Non Destructive Testing.

Respected sir,

The Department of Mechanical Engineering is pleased to invite you to conduct workshop on Non-Destructive Testing in a month of **August-2022**. The aim of this session is to give knowledge about Non-Conventional machining process and deep learning about advancement in Inspection to fulfill the industry requirements. 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,

accepted
Pamer



[Signature]
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Mechanical Engineering

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R.G.C.E., Karjule Harya



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Date- 12/08/2022

Department of Mechanical Engineering

Notice

All the third year Mechanical Engineering Students are hereby informed that the Workshop is organized on **Non Destructive Testing** having an Expert **Dr. Amol Lokhande** from **Sandip University Nashik** will be conducted on 20/08/2022 to 24/08/2022 by our college. The session shall be conducted in Class room. Hence all third year students are informed to attend the same.



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Department of Mechanical Engineering

Workshop on Non Destructive Testing

Syllabus

1. Visual inspection and eddy current testing
2. Liquid Penetrate testing
3. Magnetic Particle testing
4. Radiographic Testing
5. Ultrasonic testing


Course Coordinator




Signature of HOD

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Department of Mechanical Engineering

Workshop on Non Destructive Testing

No.	Date	Topic Covered	Topic Duration
1	20/08/2022	Visual inspection and eddy current testing	6
2	21/08/2022	Liquid Penetrate testing	6
3	22/08/2022	Magnetic Particle testing	6
4	23/08/2022	Radiographic Testing	6
5	24/08/2022	Ultrasonic testing	7


Course Coordinator




Signature of HOD

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Expert Session Feedback

Name of Student: *Mare Prajwal Balaji*

Class: *TE Mech*

Name of Speaker: Dr. Amol Lokhande

Topic: Non Destructive Testing

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



YG
Sign of Student



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Expert Session Feedback

Name of Student: *BARVE MAHESH-V*

Class: *TE Mech*

Name of Speaker: Dr. Amol Lokhande

Topic: Non Destructive Testing

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

nil

MBV
Sign of Student





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Expert Session Feedback

Name of Student: *Satpute Apurva*

Class: *TE mech*

Name of Speaker: Dr. Amol Lokhande

Topic: Non Destructive Testing

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

Alms
Sign of Student





Expert Session Feedback

Name of Student: Pote Aadesh.

Class: TE (medv)

Name of Speaker: Dr. Amol Lokhande

Topic: Non Destructive Testing

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


Sign of Student





Expert Session Feedback

Name of Student: ASHTEKAR SANGHARSH S

Class: TE

Name of Speaker: Dr. Amol Lokhande

Topic: Non Destructive Testing

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

Nil

ABK
 Sign of Student





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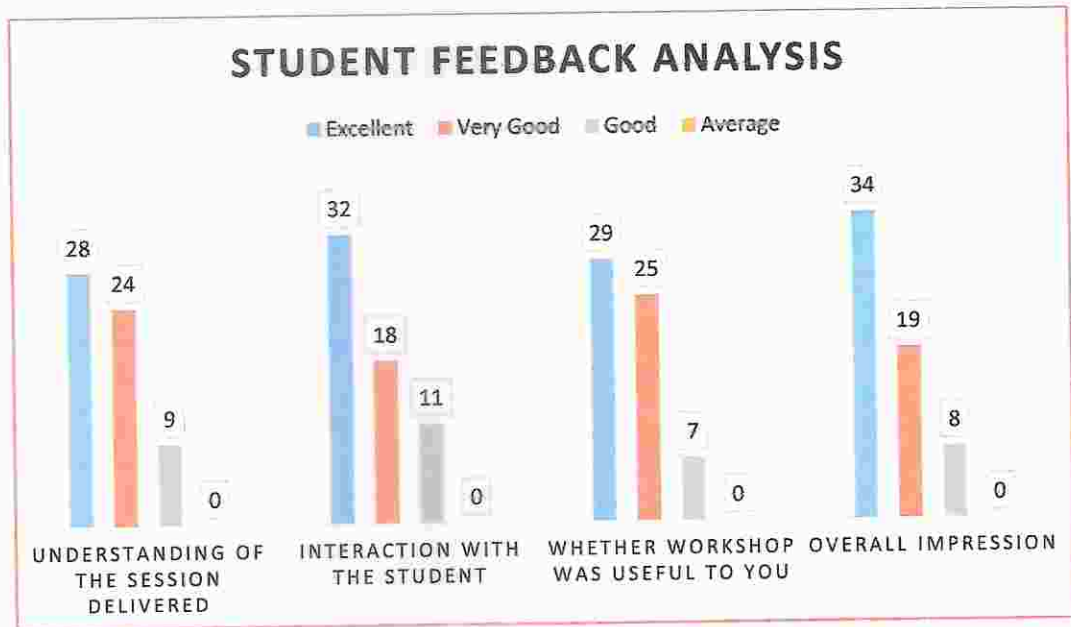
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Phone : 8975578687, 8975178687, 7447275353 Visit us at : www.rgcoe.org / email : rajivgandhi.iot@gmail.com

Students Feedback Analysis

Total No. of Student Present: 61

No. of Student filled Feedback: 61

Questions	Excellent	Very Good	Good	Average
Understanding of the session delivered	28	24	9	Nil
Interaction with the student	32	18	11	Nil
Whether workshop was useful to you	29	25	7	Nil
Overall impression	34	19	8	Nil



[Signature]
HOD
Mechanical Engineering Department
R.G.C.O.E., Karjule Harya



STUDENT FEEDBACK ANALYSIS



Comments: -

Very Informative Program.

Observation: -

Program was very Good & successfully completed.

Action Taken: -

Nil

[Signature]
Co-ordinator



[Signature]
HOD
HOD
Mechanical Engineering Department
R.G.C.O.E., Karjule Harya



Date- 24/9/2022

Expert Feedback Form

Respected sir/madam, please give your valuable feedback

Name: -Dr. Amol Lokhande

Organization: -Sandip University, Nashik

Designation: - Professor

Contact No.: - 9421077972

Topic of Workshop: -Non-Destructive Testing

Sr. No	Description	Excellent	Very Good	Good	Adequate
1	Audio/video system arrangement		✓		
2	Cooperation from faculty/dept./institute	✓			
3	Content understanding level of students		✓		
4	Interaction of students		✓		
5	Level of questions asked by the students	✓			
6	Overall rating	✓			

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

Very good arrangement done by Mechanical Department

Name & Sign of Authority
Dr. Amol Lokhande





Matoshri Shaikshank Pratishthan's

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Date- 24/08/2022

Letter of Thanks

To,

Dr. Amol Lokhande

Professor,

Sandip University,

Nashik

Dear Sir,

On behalf of Department of Mechanical 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 'Non Destructive Testing' 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,

Received
Amol Lokhande



Amol Lokhande
HOD

Mechanical Engineering

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

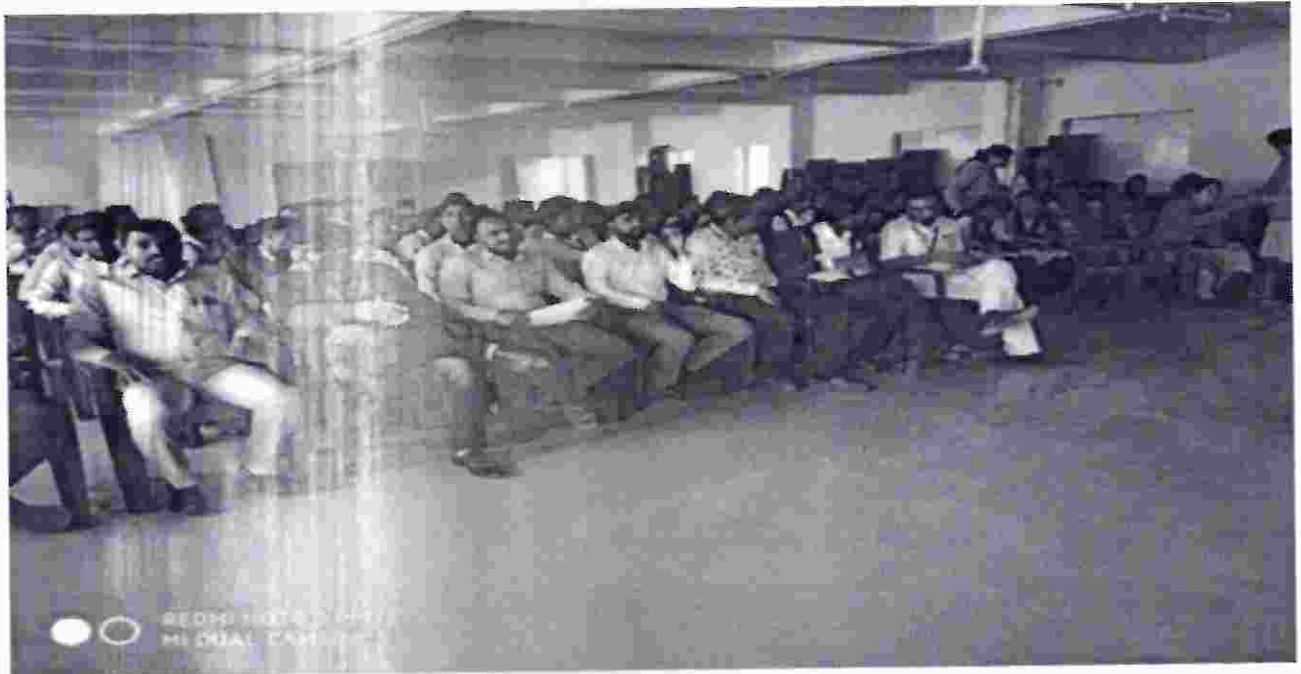


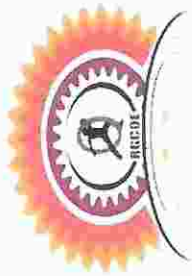
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Photo of NDT Course





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. BARVE MAHESH VISHNU** has participated in **Non Destructive Testing Course** which is organized by **Department of Mechanical Engineering Dated 20 Aug. 2022 To 24 Aug.2022.**

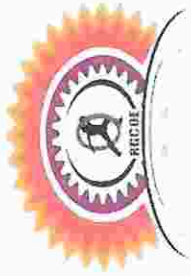
IQAC In-charge

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



PRINCIPAL

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



Rajiv Gandhi College of Engineering, Karjule Harya,

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

Email id: rajivgandhi.iot@gmail.com

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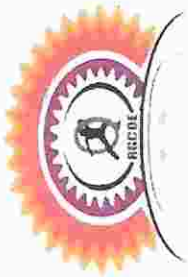
Certificate

This is to certify that **Mr. / Ms. BHADANE ANIKET NARHAR** has participated in **Non Destructive Testing Course** which is organized by **Department of Mechanical Engineering Dated 20 Aug. 2022 To 24 Aug.2022.**


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Dist. Ahmednagar-414304




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

Email id: rajivgandhi.iot@gmail.com

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Certificate

This is to certify that **Mr. / Ms. BHAKARE ATUL SANTOSH** has participated in **Non Destructive Testing Course** which is organized by **Department of Mechanical Engineering Dated 20 Aug. 2022 To 24 Aug.2022.**



IQAC In-charge

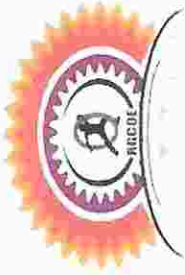
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Karjule Harya, Tal. Parner
Dist. Ahmednagar-414304





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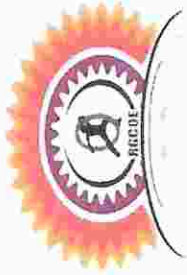
Certificate

This is to certify that **Mr. / Ms. BHALEKAR PRANAY DNYANESHWAR** has participated in **Non Destructive Testing Course** which is organized by **Department of Mechanical Engineering Dated 20 Aug. 2022 To 24 Aug.2022.**


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



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

Email id: rajivgandhi.iot@gmail.com

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Certificate

This is to certify that **Mr. / Ms. BIDKAR SWATI RAMESH** has participated in **Non Destructive Testing Course** which is organized by **Department of Mechanical Engineering Dated 20 Aug. 2022 To 24 Aug.2022.**

Ramesh

IQAC In-charge

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



Principals

PRINCIPAL

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



MATOSHRI SHAIKSHANIK PRATISTHAN'S ANE
RAJIV GANDHI COLLEGE OF ENGINEERING, KARJULE HARYA
 Department of Mechanical Engineering 2022-23
ATTENDANCE OF NDT COURSE

Roll No.	Student Name	Day-1	Day-2	Day-3	Day-4	Day-5
1	ASHTEKAR SANGHARSH SACHIN	ASh	ASh	ASh	ASh	ASh
2	BARVE MAHESH VISHNU	MB	MB	MB	MB	MB
3	BHADANE ANIKET NARHAR	B	B	B	B	B
4	BHAKARE ATUL SANTOSH	AB	AB	AB	AB	AB
5	BHALEKAR PRANAY DNYANESHWAR	P	P	P	P	P
6	BIDKAR SWATI RAMESH	S	S	S	S	S
7	BOMBALE MAHESH SUDHAKAR	MB	MB	MB	MB	MB
8	BUGADE SHRIYASH PRAKASH	S	S	S	S	S
9	DANGADE PRATIK SATISH	D	D	D	D	D
10	DHANWATE MAYUR BAPUSAHEB	M	M	M	M	M
11	DHONGADE PRASAD BAPUSAHEB	P	P	P	P	P
12	DHOTRE AJINKYA ASHOK	A	A	A	A	A
13	DHUMAL MANGESH MAHADEV	D	D	D	D	D
14	DIVATE SHREERAM MADAN	S	S	S	S	S
15	DOKE SHUBHAM BALU	S	S	S	S	S
16	GAIKWAD AMARDIP GOVIND	G	G	G	G	G
17	GAIKWAD PRAKASH NANASO	P	P	P	P	P
18	GHUSALE VISHAL NAVNATH	V	V	V	V	V
19	GITE ABHIJIT MURALIDHAR	G	G	G	G	G
20	HARALE YUVRAJ SUNIL	H	H	H	H	H
21	HARVANE MAYUR SURESH	M	M	M	M	M
22	INAMDAR ADIL AFAJAL	I	I	I	I	I
23	JADHAV PUSHPAK MAHADEV	J	J	J	J	J
24	KAKADE RUSHIKESH SAVKAR	R	R	R	R	R
25	KAMBALE VIKAS SAHEBRAO	V	V	V	V	V
26	KARALE DINESH ROHIDAS	K	K	K	K	K
27	KHAIRNAR RAHUL RAJENDRA	R	R	R	R	R
28	KOHAK OMKAR JALINDAR	O	O	O	O	O
29	KOLHE VIJAY RAMDAS	V	V	V	V	V
30	KOLHE VIKRAM ARUN	V	V	V	V	V
31	KOTE AKSHAY RAMESH	A	A	A	A	A
32	KUMATKAR KIRAN DNYANESHWAR	K	K	K	K	K



[Signature]
HOD

Mechanical Engineering Department
RCCOE, Karjule Harya



Date- 06/11/2022

Department of Mechanical Engineering

Activity Report

Title	Electrical Vehicle
Duration	32 Hrs.
Name of speaker	Mr. Chitaranjan Mahajan, CEO ,Dolphin Labs Pune
Designation	CEO ,Dolphin Labs Pune
Objectives	Analyze various electric drives suitable for hybrid electric vehicles. Technologies used for hybrid electric vehicles and their control.
Beneficiary	SE Mechanical Engineering
Number of Participants	65
Course Outcome	<ol style="list-style-type: none"> 1. Overview of electric and hybrid electric vehicles, including their architecture, fundamental technologies, and principles. 2. Examination of various power electronics devices and electrical machines utilized within hybrid electric vehicles. 3. Exploration of diverse energy storage devices employed in hybrid electric vehicles.

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Mechanical Engineering Department
 Vitthalnagar, Karjule Harya





Date- 30/3/2022

Invitation Letter

To,
Mr. Chitaranjan Mahajan,
CEO , Dolphin Labs
Pune

Subject: Invitation to Conduct Workshop on: "Electric Vehicle"

Respected sir,

The Department of Mechanical Engineering is pleased to invite you to conduct workshop on "Electric Vehicle" in a month of April-2022. The aim of this session is to give knowledge about Overview of Electric and Hybrid Electric Vehicles and deep learning about advancement in EV to make easier Human life. 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,

accepted

[Signature]



[Signature]
HOD
Mechanical Engineering

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



Date- 01/4/2022

Department of Mechanical Engineering

Notice

All the third year Mechanical Engineering Students are hereby informed that the Workshop is organized on **Electric Vehicle** having an Expert **Mr. Chitaranjan Mahajan**, from **Dolphin Labs Pune** will be conducted on 07/04/2022 to 12/04/2022 by our college. The session shall be conducted in Class room. Hence all third year students are informed to attend the same.

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Mechanical Engineering

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Mechanical Engineering Department
Rajiv Gandhi College of Engineering
Karjule Harya





Matoshri Shaikshanik Pratishthan's

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Phone : 8975578687, 8975178687, 7447275353 Visit us at : www.rgcoe.org / email : rajivgandhi.10t@gmail.com

Workshop Syllabus:

1. Overview of Electric and Hybrid Electric Vehicles
2. Energy Storage Solutions for Electric and Hybrid Electric Vehicles
3. Electric Propulsion Systems
4. Design Considerations for Electric and Hybrid Electric Vehicles
5. Capacity Design of Electric Motor Drive and Transmission
6. Power Electronic Converters for Battery Charging in Electric and Hybrid Electric Vehicles


Course Co-ordinator


HOD
Mechanical Engineering


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Electrical Vehicle Workshop Schedule

No.	Date	Topic Covered	Topic Duration
1	07/04/2022	<ul style="list-style-type: none"> • Configuration of Electric Vehicles • Performance of Electric Vehicles • Tractive effort and Transmission requirement 	6
2	08/04/2022	<ul style="list-style-type: none"> • Energy consumption • Architecture of Hybrid Electric Drive Trains • Types of Fuel Cells 	5
3	09/04/2022	<ul style="list-style-type: none"> • Modeling of PEMFC • Super capacitors • DC motor drives and speed control 	6
4	10/04/2022	<ul style="list-style-type: none"> • Motor Drives for Electric Vehicles • Series Hybrid Electric Drive Train Design • Sizing of major components 	6
5	11/04/2022	<ul style="list-style-type: none"> • design of electric motor drive capacity, transmission design, • energy storage design 	6
6	12/04/2022	<ul style="list-style-type: none"> • Charging methods for battery • Design of Z- converter for battery charging 	3





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Expert Session Feedback

Name of Student: Rishabh Omkar Jalindar

Class: SE Mechanical Engineering

Name of Speaker: Mr. Chitaranjan Mahajan

Topic: Electrical Vehicle

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

Very good


Sign of Student





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

Expert Session Feedback

Name of Student: Barve Mahesh Vishu Class: SE Mechanical Engineering

Name of Speaker: Mr. Chitaranjan Mahajan

Topic: Electrical Vehicle

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

Good.


Sign of Student





Expert Session Feedback

 Name of Student: *Dhanraj Pratik Satish*

Class: SE Mechanical Engineering

Name of Speaker: Mr. Chitaranjan Mahajan

Topic: Electrical Vehicle

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

— NO suggestion

 Sign of Student




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Expert Session Feedback

Name of Student: *Chaitkward Pratiz nanaso*

Class: SE Mechanical Engineering

Name of Speaker: Mr. Chitaranjan Mahajan

Topic: Electrical Vehicle

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

— all overall is excellent.

Chaitkward
Sign of Student





Expert Session Feedback

Name of Student: *Sambale mahesh S*

Class: SE Mechanical Engineering

Name of Speaker: Mr. Chitaranjan Mahajan

Topic: Electrical Vehicle

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

very nice

Mahesh
Sign of Student





Matoshri Shaikshanik Pratishthan's

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

Students Feedback Analysis

Total No. of Student Present: 65

No. of Student filled Feedback: 65

Workshop on Electric Vehicle

Questions	Excellent	Very Good	Good	Average
Understanding of the session delivered	30	26	9	Nil
Interaction with the student	32	20	13	Nil
Whether workshop was useful to you	32	26	7	Nil
Overall impression	34	23	8	Nil

STUDENT FEEDBACK ANALYSIS





Matoshri Shaikshanik Pratishthan's

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

STUDENT FEEDBACK ANALYSIS



Comments: -

fruitful knowlege & awairness of EV & modern trends.

Observation: -

Advance points are discussse

Action Taken: -

Co-ordinator

HOD



HOD
Mechanical Engineering Department
R.G.C.E., Karjule Harya



Date- 12/11/2022

Expert Feedback Form

Respected sir/madam, please give your valuable feedback

Name:- Mr. Chitaranjan Mahajan,

Organization:- Dolphin Labs Pune

Designation:- CEO ,

Contact No.:- 9763714860

Mail ID :- dolphinlabs17@gmail.com

Topic of Workshop:- Electric Vehicle

Sr. No	Description	Excellent	Very Good	Good	Adequate
1	Audio/video system arrangement	✓			
2	Cooperation from faculty/dept./institute		✓		
3	Content understanding level of students			✓	
4	Interaction of students				
5	Level of questions asked by the students				✓
6	Overall rating		✓		

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

Student should be more interactive in Q&A session

Name & Sign of Authority

(Handwritten Signature)

Mr. C. Mahajan





Letter of Thanks

12/11/2022

To,

Mr. Chitaranjan Mahajan,
Dolphin Labs Pune

Dear Sir,

On behalf of Department of Mechanical 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 "Electric Vehicle" 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

Mechanical Engineering

Received

HOD
Mechanical Engineering Department
R.G.C.E., Karjule Harya



RAJIV GANDHI COLLEGE OF ENGINEERING

Department of Mechanical Engineering

SE MECH

Workshop On Electric Vehicle Academic Year:- 2021-22

07/04/2022 to 12/04/2022

Sr. No.	Name of Student	Email ID	Sr. No.	Name of Student	Email ID
1	AODUT ADHIJEEET DHANAJI	anodutabhijeet@gmail.com	33	KOTE AKSHAY RAMESH	koteakshay5@gmail.com
2	ASHTEKAR SANGHARSH SACHIN	ashtekarsangharsh@gmail.com	34	KUMATKAR KIRAN DNYANESHWAR	kirankumatkar14@gmail.com
3	BARVE MAHESH VISHNU	barvemahesh11@gmail.com	35	KUNDKAR VIJAY BHASKAR	vijaykundkar9604@gmail.com
4	BHADANE ANIKET NARHAR	aniketbhadane78@gmail.com	36	LABADE SANKET SUKHADEV	sanketlabade9606@gmail.com
5	BHAKARE ATUL SANTOSH	atulbhakare5954@gmail.com	37	MALVE SANTOSH MALHARI	smalve43@gmail.com
6	BIDKAR SWATI RAMESH	swatibidkar1849@gmail.com	38	MANDAGE ADITYA KAILAS	adityamandage96@gmail.com
7	BOMBALE MAHESH SUDHAKAR	Maheshbomble2000@gmail.com	39	MARE PRAJWAL BALAJI	prajwalmare1998@gmail.com
8	BUGADE SHRIYASH PRAKASH	shriyashbugade@gmail.com	40	MATE TEJAS RAJENDRA	tejasmate9015@gmail.com
9	DANGADE PRATIK SATISH	Pratikdangade30@gmail.com	41	MATHAR PRASAD SAINATH	prasadmathar5955@gmail.com
10	DHANWATE MAYUR BAPUSAHEB	mayurbdhanwate2017@gmail.com	42	MEHER PRATIK ASHOK	meherpratik77@gmail.com
11	DHONGADE PRASAD BAPUSAHEB	prasadhdhongade10@gmail.com	43	MHASKE SAURAV BALASAHEB	sauravmhaske32@gmail.com
12	DHOTRE AJINKYA ASHOK	ajinkyadhotre570@gmail.com	44	MHATRE VIVEK HARIBHAU	vivekmhatre@gmail.com
13	DHUMAL MANGESH MAHADEV	mangeshdhumal009@gmail.com	45	MORE ABHISHEK SHIVAJI	abhimore3535@gmail.com
14	DIVATE SHREERAM MADAN	shreeramdivate1805@gmail.com	46	NAVJUPE SHUBHAM SANJAY	navjupesubham52@gmail.com
15	DOKE SHUBHAM BALU	shubhamdoke007@gmail.com	47	PANDIT ADITYA KAILAS	ap7703650@gmail.com
16	GAIKWAD AMARDIP GOVIND	amargaikwad607@gmail.com	48	PATHAN ZAHID ABUBAKAR	zahid_pathan4m@yahoo.com
17	GAIKWAD PRAKASH NANASO	prakashgaikwad2411@gmail.com	49	PATIL HARSHAL RAVINDRA	Hp417307@gmail.com
18	GHODAKE PRANAV SATISH	pranavghodake2000@gmail.com	50	PATIL VIGHNESH VISHNU	Vighneshpatil55@gmail.com
19	GHUSALE VISHAL NAVNATH	vishalghusale125@gmail.com	51	PAWAR ROHIT ANKUSH	rohitankushpawar2020@gmail.com
20	GITE ABHIJIT MURALIDHAR	giteabhi1122@gmail.com	52	PAWAR SACHIN RAMA	pawarsp0571@gmail.com
21	HARALE YUVRAJ SUNIL	yuvrajharale007@gmail.com	53	POTE AADESH OMKAR	adeshpote2021@gmail.com
22	HARVANE MAYUR SURESH	harvanemayur@gmail.com	54	SALUNKE ROHIT LAXMAN	rohitsalunke2157@gmail.com
23	INAMDAR ADIL AFAJAL	adilnamdar333@gmail.com	55	SALVI JITESH GANESH	jiteshsalvi2014@gmail.com
24	JADHAV PUSHPAK MAHADEV	jadhavpushpak5@gmail.com	56	SATPUTE APURV RAVI	apurvsatpute7@gmail.com
25	KADAM SHUBHAM LAHU	shubz1222000@gmail.com	57	SHILAWAT VAIBHAV BHAGWAN	vaibhavshilawat2002@gmail.com
26	KAKADE RUSHIKESH SAVKAR	rushikakade24@gmail.com	58	SHIMPI YOGESH BAPURAO	yb.shimpi8@gmail.com
27	KAMBALE VIKAS SAHEBRAO	kambalevikas354@gmail.com	59	SHINDE VISHAL RAJENDRA	shindevishal1238@123
28	KARALE DINESH ROHIDAS	karaledinesh55@gmail.com	60	SOLAT SOMNATH DATTATRAY	somnathsolat50@gmail.com
29	KHAIRNAR RAHUL RAJENDRA	rkhairnar724@gmail.com	61	SONAWANE SATISH SHARAD	Satishsonawane501@gmail.com
30	KOHAK OMKAR JALINDAR	omkarkohak1996@gmail.com	62	TELORE NIKHIL LAXMAN	nikhiltelore2001@gmail.com
31	KOLHE VIJAY RAMDAS	vijaykolhe38861@gmail.com	63	THOMBARE ABHIJIT KAILAS	abhijithom790@gmail.com
32	KOLHE VIKRAM ARUN	vikramkolhe.1997@gmail.com	64	TIRKHUNDE SAGAR SANJAY	Sagar1.9730331361@gmail.com
			65	TRIBHUVAN RAHUL PRAKASH	tribhuvan444@gmail.com



[Handwritten Signature]

Mechanical Engineering Department
R.G.C.O.E., Karpale Patta



MATOSHRI SHAIKSHANIK PRATISHTHAN'S, ANE
RAJIV GANDHI COLLEGE OF ENGINEERING
 Department of Mechanical Engineering

SE MECH

Workshop On Electric Vehicle Academic Year:- 2021-22
 07/04/2022 to 12/04/2022

Sr. No.	Name of Student	Email ID	07-04-22	08-04-22	09-04-22	10-04-22	11-04-22	12-04-22
1	AODUT ABHIJEET DHANAJI	aodutabhijeet@gmail.com	Done	Done	Done	Done	Done	Done
2	ASHTEKAR SANGHARSH SACHIN	ashitekarsangharsh@gmail.com	Done	Done	Done	Done	Done	Done
3	BARVE MAHESH VISHNU	barvemahesh11@gmail.com	Done	Done	Done	Done	Done	Done
4	BHADANE ANIKET NARHAR	anikelbhadane70@gmail.com	Done	Done	Done	Done	Done	Done
5	BHAKARE ATUL SANTOSH	atulbhakare5054@gmail.com	Done	Done	Done	Done	Done	Done
6	BIDKAR SWATI RAMESH	swatibidkar1849@gmail.com	Done	Done	Done	Done	Done	Done
7	BOMBALE MAHESH SUDHAKAR	Maheshbomble2000@gmail.com	Done	Done	Done	Done	Done	Done
8	BUGADE SHRIYASH PRAKASH	shriyashbugade@gmail.com	Done	Done	Done	Done	Done	Done
9	DANGADE PRATIK SATISH	Pratikdangade30@gmail.com	Done	Done	Done	Done	Done	Done
10	DHANWATE MAYUR BAPUSAHEB	mayurbdhanwate2017@gmail.com	Done	Done	Done	Done	Done	Done
11	DHONGADE PRASAD BAPUSAHEB	prasadhsongade10@gmail.com	Done	Done	Done	Done	Done	Done
12	DHOTRE AJINKYA ASHOK	ajinkyadhotre570@gmail.com	Done	Done	Done	Done	Done	Done
13	DHUMAL MANGESH MAHADEV	mangeshdhumal009@gmail.com	Done	Done	Done	Done	Done	Done
14	DIVATE SHREERAM MADAN	shreeramdivate1005@gmail.com	Done	Done	Done	Done	Done	Done
15	DOKE SHUBHAM BALU	shubhamdoke007@gmail.com	Done	Done	Done	Done	Done	Done
16	GAIKWAD AMARDIP GOVIND	amargaikwad607@gmail.com	Done	Done	Done	Done	Done	Done
17	GAIKWAD PRAKASH NANASO	prakashgaikwad2411@gmail.com	Done	Done	Done	Done	Done	Done
18	GHODAKE PRANAV SATISH	pranavghodake2000@gmail.com	Done	Done	Done	Done	Done	Done
19	GHUSALE VISHAL NAVNATH	vishalghusale125@gmail.com	Done	Done	Done	Done	Done	Done
20	GITE ABHIJIT MURALIDHAR	giteabhi1122@gmail.com	Done	Done	Done	Done	Done	Done
21	HARALE YUVRAJ SUNIL	yuvrajharaie007@gmail.com	Done	Done	Done	Done	Done	Done
22	HARVANE MAYUR SURESH	harvanemayur@gmail.com	Done	Done	Done	Done	Done	Done
23	INAMDAR ADIL AFAJAL	adilnamdar353@gmail.com	Done	Done	Done	Done	Done	Done
24	JADHAV PUSHPAK MAHADEV	jadhavpushpak5@gmail.com	Done	Done	Done	Done	Done	Done
25	KADAM SHUBHAM LAHU	shubz1222000@gmail.com	Done	Done	Done	Done	Done	Done
26	KAKADE RUSHIKESH SAVKAR	rushikakade24@gmail.com	Done	Done	Done	Done	Done	Done
27	KAMBALE VIKAS SAHEBRAO	kambalevikas354@gmail.com	Done	Done	Done	Done	Done	Done
28	KARALE DINESH ROHIDAS	karatedinesh55@gmail.com	Done	Done	Done	Done	Done	Done
29	KHAIRNAR RAHUL RAJENDRA	rkhairnar724@gmail.com	Done	Done	Done	Done	Done	Done
30	KOHAK OMKAR JALINDAR	omkarkohak1996@gmail.com	Done	Done	Done	Done	Done	Done
31	KOLHE VIJAY RAMDAS	vijaykolhe38861@gmail.com	Done	Done	Done	Done	Done	Done
32	KOLHE VIKRAM ARUN	vikramkolhe.1997@gmail.com	Done	Done	Done	Done	Done	Done
33	KOTE AKSHAY RAMESH	koteakshay5@gmail.com	Done	Done	Done	Done	Done	Done
34	KUMATKAR KIRAN DIWYANESHWAR	kiranikumatkar14@gmail.com	Done	Done	Done	Done	Done	Done





Rajiv Gandhi College of Engineering, Karjule Harya,

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

Email id: rajivgandhi.iot@gmail.com

www.rgcoe.org

Certificate

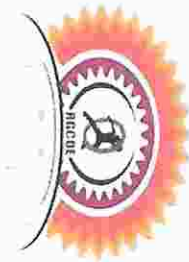
This is to certify that Mr. / Ms **AOUDIT ABHIJEET DHANAJI** has participated in **Electric Vehicle** which is organized by Department of **Mechanical Engineering** Dated **07 Apr. 2022 To 12 Apr.2022.**


IQAC In-charge

Rajiv Gandhi College of Engineering
Karjule Harya, Tal. Parner,
Dist. Ahmednagar, Pin: 414304




PRINCIPAL
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

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This is to certify that Mr. / Ms **ASHTEKAR SANGHARSH SACHIN** has participated in **Electric Vehicle** which is organized by Department of **Mechanical Engineering** Dated **07 Apr. 2022 To 12 Apr.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. Ahmednagar



Rajiv Gandhi College of Engineering, Karjule Harya,

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

Email id: rajivgandhi.iot@gmail.com


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Certificate

This is to certify that Mr. / Ms **BARVE MAHESH VISHNU** has participated in **Electric Vehicle** which is organized by Department of **Mechanical Engineering** Dated **07 Apr. 2022 To 12 Apr.2022.**


IQAC In-charge
Rajiv Gandhi College of Engineering
Tal. Parner, Dist. Ahmednagar
Pin: 414304
Contact No: 020-414304




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



Rajiv Gandhi College of Engineering, Karjule Harya,

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

Email id: rajivgandhi.iot@gmail.com

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Certificate

This is to certify that Mr. / Ms **BHADANE ANIKET NARHAR** has participated in **Electric Vehicle** which is organized by Department of **Mechanical Engineering** Dated **07 Apr. 2022 To 12 Apr. 2022.**

IQAC In-charge

Rajiv Gandhi College of Engineering
Tal. Partner Dist. Ahmednagar
Pin: 414304
Contact No: 98220414304



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

www.rgcoe.org

Certificate

This is to certify that Mr. / Ms **BHAKKARE ATUL SANTOSH** has participated in **Electric Vehicle** which is organized by Department of **Mechanical Engineering** Dated **07 Apr. 2022 To 12 Apr.2022.**

IQAC In-charge

Rajiv Gandhi College of Engineering
Parner, Dist. Ahmednagar,
Pin-414304



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Karjule Harya, Tal. Parner Dist. A. Nagar



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Phone : 8975576687, 8975178887, 7447275353 Visit us at : www.rgcoe.org / email : rajivgandhi.1ot@gmail.com

Photos of Electric Vehicle





Date -8/12/2021

Department of Mechanical Engineering**Activity Report**

Title	AI-ML
Duration	30 Hrs.
Name of Speaker	Prof. Vidya .V. Jagtap Head of the Department, Department of Information Technology, BSIOTR, Wagholi, Pune
Designation	HOD
Objectives	Introduction to Feature Extraction & feature selection Statistical features, PCA, Decision tree, Applications of feature extraction and selection algorithms in Mechanical Engineering. Characteristics of reinforced learning; Algorithms, Q Learning, Applications of Reinforced Learning
Beneficiary	TE Mechanical Engineering
Number of Participants	62
Course Outcome	<ol style="list-style-type: none">1. Basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals2. Analyse the use of different power electronics devices and electrical machines in hybrid electric vehicles.3. Use of different energy storage devices used for hybrid electric


HOD

Mechanical Engg.

HOD

Mechanical Engineering Department
R.G.C.O.E., Karjule Harya



Invitation Letter

5/12/2021

To,
Prof. Vidya V. Jagtap
Head of the Department,
Department of Information Technology,
BSIOTR, Wagholi, Pune

Subject: Invitation as a Resource Person for 5 days online Workshop on
“**Application of Artificial Intelligence & Machine Learning in Mechanical Engineering**”

Respected Sir,

We are pleased to invite you as a Resource Person for the Seminar on “**Application of Artificial Intelligence & Machine Learning in Mechanical Engineering**” for our TE Mechanical students scheduled on **Monday 08/02/2021 to Friday 12/02/2021**. Your expertise and knowledge in the area would add a great value to the one and all, especially the budding engineers of the country who require the guidance and path-breaking ideas to lead their way through the tough competition in the Global market on this day.

With your vast and in-depth knowledge in the area, you would be expected to deliver the 5 days online workshop on the “**Application of Artificial Intelligence & Machine Learning in Mechanical Engineering**” as we are aware of your great contribution to this field of work.

We look forward to your presence and guidance in making the event successful.

Thanking you.

Yours faithfully,

Received



HOD Mech. Engg.

HOD
Mechanical Engineering Department
R.G.C.E., Karjule Harya



Matoshri Shaikshanik Pratishthan's

RAJIV GANDHI COLLEGE OF ENGINEERING

Estd. 2012

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

Date: 05/02/2021

NOTICE

**5 Days online
Workshopon**

“Application of AIML in Mechanical Engineering”

All the students of Third Year Mechanical Engineering are hereby informed that Mechanical Engineering Department is organizing 5 Days online Workshop on “Application of Artificial Intelligence & Machine Learning in Mechanical Engineering” from 08/02/2021 to 12/02/2021. It is compulsory for all TE Mechanical Students.

Join the workshop using following link...

<https://us06web.zoom.us/j/7142202604?pwd=TkZLeU1MY2d5eUpqeTJ5WUJTRHIVUT09&omn=86422064458>

HOD Mech. Engg.

HOD

**Mechanical Engineering Department
R.G.C.E., Karjule Harya**

Copy to:-

- All the staff members of Mechanical Engineering Department.





Matoshri Shaikshanik Pratishthan's

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Phone : 8975576687, 8975178687, 7447275353 Visit us at : www.rgcoe.org / email : rajivgandhi.iot@gmail.com

Department of Mechanical Engineering

5 Days online Workshopon

"Application of AIML in Mechanical Engineering"

Syllabus Details:

Day 1 08/02/2021	Morning Session	Topic Name:	Introduction to AI & ML
		Content	Introduction to AI, Types of AI, Introduction to ML, Types of ML, Supervised learning, Unsupervised learning, Reinforcement learning.
	Afternoon Session	Topic Name:	Feature Extraction & feature selection
		Content	Introduction to Feature Extraction & feature selection Statistical features, PCA, Decision tree, Applications of feature extraction and selection algorithms in Mechanical Engineering
	Evening Session	Topic Name:	Common Application of AIML
		Content	Application of AIML in Agriculture, Medical, defense, etc.
Day 2 09/02/2021	Morning Session	Topic Name:	Classification & Regression
		Content	Introduction to Classification & Regression, different Algorithms, Decision tree, Random forest, Naive Bayes, Support vector machine, etc, Applications of classification and regression algorithms in Mechanical Engineering
	Afternoon Session	Topic Name:	Development of ML Model
		Content	Steps in ML modeling, Data Collection, Data pre-processing, Model Selection, Model training, Model evaluation.
	Evening Session	Topic Name:	Reinforced Learning & Applications of Reinforced Learning
		Content	Characteristics of reinforced learning; Algorithms, Q Learning, Applications of Reinforced Learning





Department of Mechanical Engineering

5 Days online Workshop on “Application of Artificial Intelligence & Machine Learning in Mechanical Engineering”

Schedule of Program (08/02/2021 – 12/02/2021)

Day & Date	Morning Session (10.00 am to 12.00 pm)		Afternoon Session (12.45 to 02.45 pm)		Evening Session (03.00 to 05.00 pm)
Day 1 06/02/2023	Session 1	L U N C H B R E A K	Session 2	S H O R T B R E A K	Session 3
	Introduction to AI & ML		Feature Extraction & feature selection		Common application of AIML
Day 2 07/02/2023	Session 4		Session 5		Session 6
	Classification & Regression		Development of ML Model		Reinforced Learning Application of Reinforced Learning
Day 3 08/02/2023	Session 7		Session 8		Session 9
	Deep Learning and Application of Deep Learning		ANN & CNN		Applications of AI in image based part Classification
Day 4 09/02/2023	Session 10		Session 11		Session 12
	Applications of AI in Manufacturing		Applications of AI in Predictive Maintenance		Applications of AI in process optimization and Role of AI in Conditioning Monitoring
Day 5 10/02/2023	Session 10		Session 11		Session 12
	Applications of AI in Material Inspection		Applications of AI in Fault Detection & implementation of Sensor Fault Detection		Applications of AI in Traffic Control



AIML WORKSHOP STUDENT FEEDBACK

Timestamp	Email address	Name of Student	Email	Understanding of the session delivered	Interaction with the student	Whether workshop was useful to you	Overall impression
18/02/2021 05:30:00	suvarmaunde399@gmail.com	Aher Chetan Sariraj	suvarmaunde399@gmail.com	Excellent	Very good	Good	Excellent
18/02/2021 05:39:03	jayodip1234@gmail.com	AHIRRAO JAYODIP HEMANT	jayodip1234@gmail.com	Excellent	Good	Excellent	Average
18/02/2021 05:32:00	amit.tapkeer@gmail.com	AMIT VIJAY TAPKEER	amit.tapkeer@gmail.com	Good	Very good	Very good	Excellent
18/02/2021 05:31:01	siddharthbadakh28@gmail.com	BADAKH SIDDHARTH GORAKSHANATH	siddharthbadakh28@gmail.com	Very good	Excellent	Good	Very good
18/02/2021 05:30:00	shubham17belhekar@gmail.com	BELHEKAR SHUBHAM NAMDEV	shubham17belhekar@gmail.com	Good	Very good	Very good	Good
18/02/2021 05:33:00	bhalsingsaurabh6@gmail.com	BHALSING SAURABH SANJAY	bhalsingsaurabh6@gmail.com	Good	Good	Excellent	Good
18/02/2021 05:34:00	somnathbhise6@gmail.com	BRISE SOMNATH SURESH	somnathbhise6@gmail.com	Very good	Excellent	Average	Average
18/02/2021 05:36:00	rsbhoi14@gmail.com	BHOI RAVINA SHALIKRAO	rsbhoi14@gmail.com	Good	Good	Good	Very good
18/02/2021 05:35:00	ganyab@gmail.com	BUCHUDE GANESH NANA	ganyab@gmail.com	Excellent	Very good	Very good	Average
18/02/2021 05:37:00	poojachavan2917@gmail.com	CHAVAN POOJA SUNIL	poojachavan2917@gmail.com	Good	Excellent	Excellent	Excellent
18/02/2021 05:30:00	sachinchormal98@gmail.com	CHORMAL SUSHILKUMAR RANONATH	sachinchormal98@gmail.com	Average	Very good	Good	Average
18/02/2021 05:36:00	kundan.choudhari.52@gmail.com	CHOUDHARI KUNDAN DAULAT	kundan.choudhari.52@gmail.com	Excellent	Very good	Average	Very good
18/02/2021 05:33:00	paritoshdange1@gmail.com	DANGE PARITOSH PRAVIN	paritoshdange1@gmail.com	Very good	Very good	Very good	Very good
18/02/2021 05:34:00	rahuldarade78@gmail.com	DARADE RAHUL BAPU	rahuldarade78@gmail.com	Good	Good	Excellent	Average
18/02/2021 05:38:00	dhadgesuyog@gmail.com	DHADGE SUYOG BALU	dhadgesuyog@gmail.com	Very good	Excellent	Excellent	Excellent
18/02/2021 05:35:00	varshadhmal20744@gmail.com	DHUMAL VARSHA BHARAT	varshadhmal20744@gmail.com	Very good	Average	Very good	Average
18/02/2021 05:37:00	ravishankardivate@gmail.com	DIVATE RAVISHANKAR ASHOK	ravishankardivate@gmail.com	Average	Very good	Excellent	Average
18/02/2021 05:36:00	mdukare2013@gmail.com	DUKARE MININATH VIKRAM	mdukare2013@gmail.com	Excellent	Excellent	Good	Excellent
18/02/2021 05:33:00	gawarekartiki201@gmail.com	GAWARE KARTIKI SANJAY	gawarekartiki201@gmail.com	Good	Good	Average	Average
18/02/2021 05:30:00	manishghode09021988@gmail.com	GHODE MANISH SURESH	manishghode09021988@gmail.com	Very good	Very good	Good	Excellent
18/02/2021 05:36:00	shubhamingle95@gmail.com	INGLE SHUBHAM RAMESHRAO	shubhamingle95@gmail.com	Good	Very good	Very good	Very good
18/02/2021 05:38:00	dvjadhav37@gmail.com	JADHAV DIGAMBAR VINAYAK	dvjadhav37@gmail.com	Very good	Average	Good	Good
18/02/2021 05:37:00	jsjadhav7777@gmail.com	JADHAV JAYESH SUNIL	jsjadhav7777@gmail.com	Very good	Very good	Very good	Excellent
18/02/2021 05:36:00	shubhamsjadhav3399@gmail.com	JADHAV SHUBHAM SAKHARM	shubhamsjadhav3399@gmail.com	Very good	Very good	Very good	Good
18/02/2021 05:30:00	sujitjad2580@gmail.com	JADHAV SUJIT VYANKAT	sujitjad2580@gmail.com	Average	Very good	Excellent	Excellent
18/02/2021 05:34:00	gauravjaiswal4847@gmail.com	JAIJSWAL GAURAV RAVINDRA	gauravjaiswal4847@gmail.com	Excellent	Very good	Very good	Good
18/02/2021 05:36:00	prahankadus123@gmail.com	KADUS PRASHANT POPAT	prahankadus123@gmail.com	Very good	Excellent	Very good	Good
18/02/2021 05:35:00	akashkamble@gmail.com	KAMBLE AKASH MAHENDRA	akashkamble@gmail.com	Good	Good	Average	Very good
18/02/2021 05:37:00	prasadkaningdhwaj95@gmail.com	KANINGDHWAJ PRASAD NIVAMUTTI	prasadkaningdhwaj95@gmail.com	Very good	Very good	Good	Good
18/02/2021 05:36:00	abhijeetkarande980@gmail.com	KARANDE ABHJEPET RAJU	abhijeetkarande980@gmail.com	Average	Good	Good	Average
18/02/2021 05:36:00	shubhamkarke123@gmail.com	KARKE SHUBHAM PRABHAKAR	shubhamkarke123@gmail.com	Good	Very good	Very good	Good
18/02/2021 05:33:00	maheshkawde108@gmail.com	KAWDE MAHESH BABASAHEB	maheshkawde108@gmail.com	Good	Very good	Good	Good
18/02/2021 05:34:00	siddheshkekan@gmail.com	KEKAN SIDDHESH ANAND	siddheshkekan@gmail.com	Very good	Good	Good	Very good
18/02/2021 05:35:00	khandavevishal27@gmail.com	KHANDAVE VISHAL DILIP	khandavevishal27@gmail.com	Good	Very good	Good	Good
18/02/2021 05:35:00	manojkhandvi31@gmail.com	KHANDVI MANOJ CHATUR	manojkhandvi31@gmail.com	Average	Very good	Very good	Very good
18/02/2021 05:37:00	ashishkharche41@gmail.com	KHARCHE ASHISH SONALI	ashishkharche41@gmail.com	Average	Good	Very good	Good
18/02/2021 05:30:00	prashantkolhe301097@gmail.com	KOLHE PRASHANT DILIP	prashantkolhe301097@gmail.com	Average	Good	Very good	Good
18/02/2021 05:36:00	yogeshmandlik555.ym@gmail.com	MANDLIK YOGESH ANNASAHEB	yogeshmandlik555.ym@gmail.com	Very good	Excellent	Excellent	Very good
18/02/2021 05:33:00	maheshmore1000@yahoo.in	MORE MAHESH BHARAT	maheshmore1000@yahoo.in	Very good	Very good	Very good	Good
18/02/2021 05:33:00				Average	Good	Very good	Excellent





Students Feedback Analysis

Online Workshop on "Application of Artificial Intelligence & Machine Learning in Mechanical Engineering"

Total No. of Student Present: 62

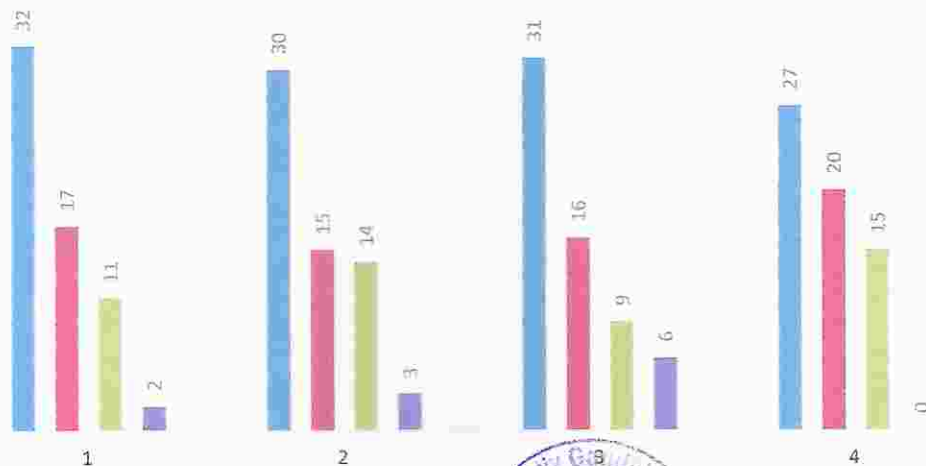
No. of Student filled Feedback: 62

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

	Excellent	Very Good	Good	Average
1	32	17	11	2
2	30	15	14	3
3	31	16	9	6
4	27	20	15	Nil

CHART TITLE

■ Excellent ■ Very Good ■ Good ■ Average





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

Chart Title



Comment:

Learn new Application in AITL.

Observation:

Nice Workshop.

Action Taken

Nil

Course Coordinator

Signature of HOD

HOD

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





Date-12/2/21

Expert Feedback Form

Respected sir/madam, please give your valuable feedback

Name:- Prof. Vidya V. Jagtap

Organization:- BSIOTR, Wagoli, Pune

Designation:- HOD of department of IT

Topic of Workshop:- "Application of Artificial Intelligence & Machine Learning in Mechanical Engineering"

Sr. No	Description	Excellent	Very Good	Good	Adequate
1	Audio/video system arrangement	✓			
2	Cooperation from faculty/dept./institute		✓		
3	Content understanding level of students	✓			
4	Interaction of students	✓			
5	Level of questions asked by the students		✓		
6	Overall rating				

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

ok

Jagtap
 Name & Sign of Authority





Letter of Thanks

To,
Prof. Vidya V. Jagtap
Head of the Department,
Department of Information Technology,
BSIOTR, Wagholi, Pune

Dear Madam,

It was really a great privilege to have your presence at Workshop on “**Application of Artificial Intelligence & Machine Learning in Mechanical Engineering**” which was held at our Institution on **Monday 08/02/2021 to Friday 12/02/2021**. I would like to express my gratitude for your valuable speech/presentation on “**Application of Artificial Intelligence & Machine Learning in Mechanical Engineering**” Your valuable guidance had helped us in past and in future as well. On behalf of the all the faculties of our institution, I greatly appreciate your expert talk.

I hope the same co-operation from you in near future.

Thanking you,

Yours faithfully,

HOD Mech. Engg.

HOD

Mechanical Engineering Department
R.G.C.O.E., Karjule Harya

Received



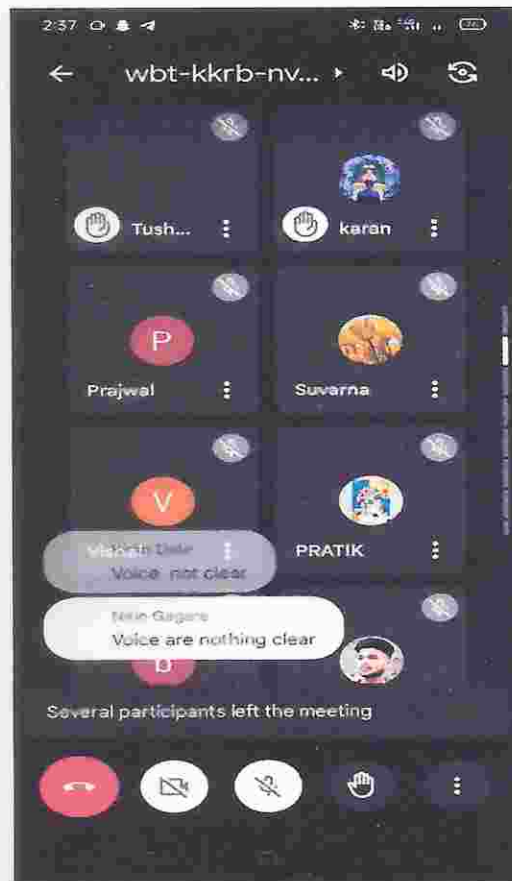
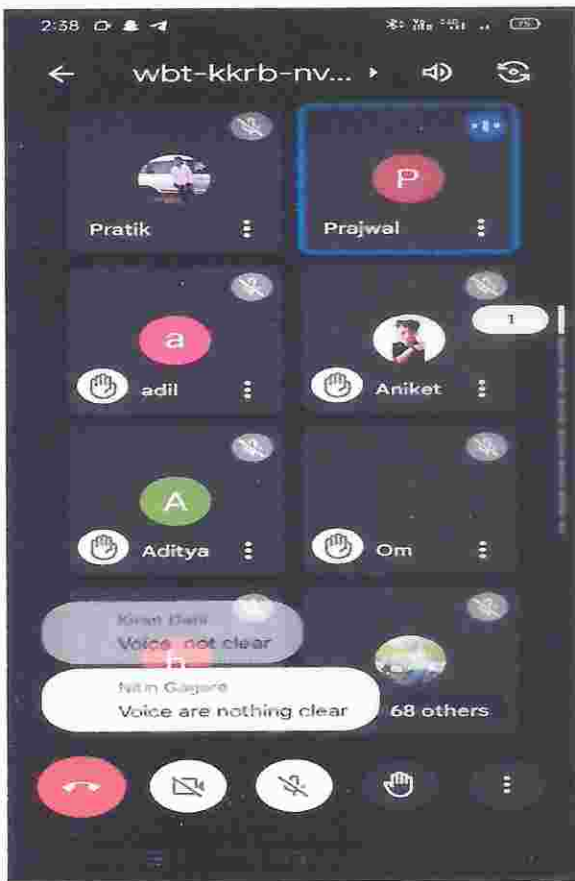
Department Of Mechanical Engineering

TOPIC- Application of Artificial Intelligence & Machine Learning in Mechanical Engineering”

SR NO	STUDENT LIST	DATE				
		8/2/2021	9/2/2021	10/2/2021	11/2/2021	12/2/2021
1	AHER CHETAN SANJAY	p	P	p	P	p
2	AHIRRAO JAYODIP HEMANT	P	P	P	P	P
3	AMIT VIJAY TAPKEER	p	P	p	P	p
4	BADAKH SIDDHARTH GORAKSHANATH	P	P	P	P	P
5	BELHEKAR SHUBHAM NAMDEV	p	P	p	P	p
6	BHALSING SAURABH SANJAY	P	P	P	P	P
7	BHISE SOMNATH SURESH	p	P	p	P	p
8	BHOI RAVINA SHALIKRAO	P	P	P	P	P
9	BUCHUDE GANESH NANA	p	P	p	P	p
10	CHAVAN POOJA SUNIL	P	P	P	P	P
11	CHORMAL SUSHILKUMAR RANGNATH	p	P	p	P	p
12	CHOUDHARI KUNDAN DAULAT	P	P	P	P	P
13	DANGE PARITOSH PRAVIN	p	P	p	P	p
14	DARADE RAHUL BAPU	P	P	P	P	P
15	DHADGE SUYOG BALU	p	P	p	P	p
16	DHUMAL VARSHA BHARAT	P	P	P	P	P
17	DIVATE RAVISHANKAR ASHOK	p	P	p	P	p
18	DUKARE MININATH VIKRAM	P	P	P	P	P
19	GAWARE KARTIKI SANJAY	p	P	p	P	p
20	GHODE MANISH SURESH	P	P	P	P	P
21	INGLE SHUBHAM RAMESHRAO	p	P	p	P	p
22	JADHAV DIGAMBAR VINAYAK	P	P	P	P	P
23	JADHAV JAYESH SUNIL	p	P	p	P	p
24	JADHAV SHUBHAM SAKHARM	P	P	P	P	P
25	JADHAV SUJIT VYANKAT	p	P	p	P	p
26	JAISWAL GAURAV RAVINDRA	P	P	P	P	P
27	KADUS PRASHANT POPAT	p	P	p	P	p
28	KAMBLE AKASH MAHENDRA	P	P	P	P	P
29	KANINGDHWAJ PRASAD NIVARUTTI	p	P	p	P	p
30	KARANDE ABHIJEET RAJU	P	P	P	P	P
31	KARKE SHUBHAM PRABHAKAR	p	P	p	P	p
32	KAWDE MAHESH BABASAHEB	P	P	P	P	P
33	KEKAN SIDDHESH ANAND	p	P	p	P	p
34	KHANDAVE VISHAL DILIP	P	P	P	P	P
35	KHANDVI MANOJ CHATUR	p	P	p	P	p
36	KHARCHE ASHISH SONAJI	P	P	P	P	P
37	KOLHE PRASHANT DILIP	p	P	p	P	p
38	MANDLIK YOGESH ANNASAHEB	P	P	P	P	P
39	MORE MAHESH BHARAT	p	P	p	P	p
40	NIKAM SANCHIT BALU	P	P	P	P	P
41	NIVALE RAHUL DNYANOBA	p	P	p	P	p



42	NIVDUNGE PRAVIN MAHADEV	P	P	P	P	P
43	PALWE NITIN SUBHASH	p	P	p	P	p
44	PATIL SHIVAM SATISH	P	P	P	P	P
45	PATIL SHUBHAM SUMERSINGH	p	P	p	P	p
46	PAWAR BAPU BABAN	P	P	P	P	P
47	PAWAR NAGESH BABAN	p	P	p	P	p
48	PISE SAURABH ASHOK	P	P	P	P	P
49	RAKESH CHANDRAKANT GADEKAR	p	P	p	P	p
50	SALVE KAILAS PRAKASH	P	P	P	P	P
51	SHAIKH SHAHBAZ ABDUL HANIF	p	P	p	P	p
52	SINGH ADITYA TEJPRATAP	P	P	P	P	P
53	SONULE SHUBHAM RAVINDRA	p	P	p	P	p
54	TEKE SHUBHAM CHANDRAKANT	P	P	P	P	P
55	THORAT SHUBHAM MURLIDHAR	p	P	p	P	p
56	THORAT VIKAS DNYANDEO	P	P	P	P	P
57	UNDE PRASHANT KARBHARI	p	P	p	P	p
58	VISHAL SANTOSH YELVANDE	P	P	P	P	P
59	WADHAVANE VAIBHAV POPAT	p	P	p	P	p
60	WAGH SHRIRAM BAPUSAHEB	P	P	P	P	P
61	WANDHEKAR PRASHANT RAJKUMAR	p	P	p	P	p
62	KATARIYA SHUBHAM SANTOSH	p	P	p	P	p





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Email id: rajivgandhi.iot@gmail.com

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Certificate

This is to certify that Mr. / Ms **AMIT VIJAY TAPKEER** has participated in

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which is organized by Department of Mechanical Engineering Dated **08 Feb. 2021 To 12**

Feb.2021.



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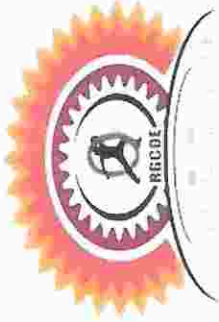
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Email id: rajivgandhi.iot@gmail.com

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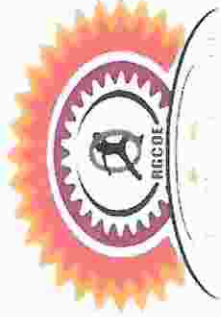
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Email id: rajivgandhi.iot@gmail.com

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