



Sandip Institute of Technology and Research Centre

At & Po – Mahirawani, Trimbak Road, Tal & Dist .– Nashik

Phone: (02594) 222552,53,54, Fax: (02594) 222555

website : www.sandipfoundation.org, e-mail : principal@sitrc.org

Accredited with “A” grade by NAAC With CGPA Score of 3.11



SANDIP
FOUNDATION



Department of Mechanical Engineering

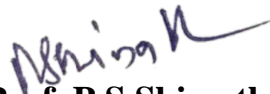
Date: 23/01/2024


Notice

All the students of Third Year are hereby informed that Value Added Program on “Electrical Vehicle Technology” arranged from 24st January 2024 onwards.

Venue: TE Class Room

Note : Attendance is compulsory


Prof. P.S Shirsath
Event Co-ordinator


Dr. S.G. Ghalme
Head, Mech. Engg.



CHIEFPATRON

Hon. Dr. Sandip N.Jha

(Chairman, Sandip Foundation, Nashik)

PATRON

Hon. Prof. Pramod Karole

(Academic Facilitator, Sandip Foundation, Nashik)

PRINCIPAL

Dr. M.M. Patil

(Principal, SITRC, Nashik)

CONVENER

Dr. S.G.Ghalme

(HOD, Department of Mechanical Engineering, SITRC, Nashik)

CO-ORDINATOR

Prof. P.S. Shirsath

Assistant Professor, Dept. of Mechanical Engineering



RESOURCEPERSON

Prof. Pankaj S. Shirsath

Assistant Professor,
Mechanical Department
SITRC, Nashik

Venue and Time

Venue: T.E Classroom, Mechanical Engineering Department

Time: 10:10 am To 12.10 pm

(25st January 2024 – 23rd February 2024)

Value Added Program

On

“Electric Vehicle Technology”

(25st January 2024 – 23rd February 2024)

Organized By

Department of Mechanical Engineering,
Sandip Institute of Technology and
Research Centre,
Nashik-422213.

ABOUT INSTITUTE

Sandip Institute of Technology and Research Center (SITRC), the top engineering colleges in Nasik, Maharashtra is established in 2008 and is approved by AICTE, New Delhi and affiliated to Savitribai Phule Pune University, Pune. The Institute is accredited by NAAC with A Grade (CGPA3.11Score).

SITRC have an ambiance that stimulates intellectual thinking and academic proceedings.

The institute has following major credentials at its credit.

- √ Accredited with A Grade by NAAC
- √ Affiliated to SPPU Pune
- √ Green and Clean Campus

ABOUT DEPARTMENT

Department of Mechanical Engineering offers undergraduate program i.e. B. E. Mechanical Engineering course and practices OBE (outcome-based education) for which it is NBA Accredited from 2020-21 to 2022 – 23. This is the highest and prestigious accreditation of the nation acquired as on date by only a few programs in the jurisdiction of the University, North Maharashtra region as well as the nation.

DEPARTMENT VISION

To achieve excellence in the domain of Mechanical Engineering by inculcating a culture of learning and research.

DEPARTMENT MISSION

To achieve the vision, the department is committed to:

- **To nurture the students of Mechanical Engineering to be competent, motivated and ethical professionals.**
- **To foster research, innovation and entrepreneurship skills leading to employable and self-reliant technocrats.**
- **To groom the socio-techno potential for upliftment of society.**

ABOUT VALUE ADDED PROGRAM

The aim of the Value added program is to offer a comprehensive in-depth technical knowledge to the entire participant on the modeling and simulation of electric vehicle with specific emphasis on physics-based modeling.

VALUE ADDED PROGRAM OBJECTIVES

1. To familiarize pupils with the principles of electric vehicles.
2. To create simulations and models for electric vehicles.
3. To achieve increased operational effectiveness.

COURSE CONTENTS

The Value Added Program will cover a wide range of topics, including but not limited to:

1. Introduction of e-Vehicle Technology
2. Hybridization in e-vehicles
3. Lithium Ion Batteries
4. Prime Movers [Electric Motor]
5. Control Units
6. Electric Vehicle Configuration
7. Power train, Differential and Transmission System
8. Battery Compartment & Frame/Chassis Design
9. Energy Storage Systems [Battery/Cell Pack]
10. Testing And Evaluation Standards For Electric vehicle
11. Battery Charging And Discharging
12. Standards for EV batteries and associated testing procedures
13. Battery failures and its effects on battery components
14. Practical on EVT

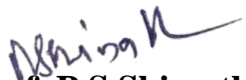
Sandip Foundation's


Sandip Institute of Technology and Research Center, Nashik

Department of Mechanical Engineering

Course Content For Electric Vehicle

- 1.Introduction of e-Vehicle Technology
- 2.Hybridization in e-vehicles
- 3.Lithium Ion Batteries
- 4.Prime Movers [Electric Motor]
- 5.Control Units
- 6.Electric Vehicle Configuration
- 7.Power train, Differential and Transmission System
- 8.Battery Compartment & Frame/Chassis Design
9. Energy Storage Systems [Battery/Cell Pack]
10. Testing And Evaluation Standards For Electric vehicle
11. Battery Charging And Discharging
- 12.Standards for EV batteries and associated testing procedures
13. Battery failures and its effects on battery components
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Prof. P.S Shirsath
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SANDIP
FOUNDATION



Department of Mechanical Engineering

Report of Value Added Program on “Electric Vehicle Technology ” (TE)

- 1. Event Title:** Value Added Program on “Electric Vehicle Technology ” (TE)
- 2. Event Date:** 25th January to 23rd February 2024
- 3. Event Conduction Duration:** 30 Hours
- 4. Event Venue:** Seminar Hall, Mechanical Engineering Department, SITRC
- 5. Event Resource Person Details:** Prof Pankaj S. Shirsath.
- 6. Name of Event Coordinator:** Prof Pankaj S. Shirsath.
- 7. Event Objectives & Outcomes**

Objectives of Activity:

1. To familiarize students with the principles of electric vehicles.
2. To create simulations and models for electric vehicles.
3. To achieve increased operational effectiveness.

Outcomes of Activity:

1. Students understood the basics of electrical and power electronics fundamentals
2. Students are aware of management system for Batteries.
3. Student learns about EV and Motor Components and calculations for electric vehicles.

8. Event Details & Photos

The Value-Added Program for TE Mechanical students was held from January 25th to February 23, 2024, with the theme being “Electric Vehicle Technology ”. In this electric vehicle event, 27 third-year students participated. The program was organized by SITRC Mechanical Engineering Department. The main objective of the program was to assist students in understanding the use and importance of electric vehicles in the engineering profession. This endeavor was overseen by Prof Pankaj S. Shirsath, Assistant Professor in the Mechanical Engineering Department, under the guidance of Professor (Dr.) S. G. Ghalme, Head of the Mechanical Department. For mechanical engineering students, the course “Electric Vehicle Technology ” is essential. This course aids in the acquisition of fundamental knowledge in electrical and power electronics, as well as EV and motor components and calculations for the structural analysis of electric vehicles.



It improves their capacity for problem-solving and equips them to take on practical engineering issues, which increases their marketability. Moreover, electric vehicles prepare students for the needs of the mechanical engineering area by providing a link between theoretical knowledge and actual application.

Mechanical engineering students who master the use of electric vehicle software will have an advantage over their peers in both their academic and career endeavors as technology develops.

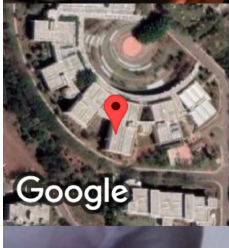
This particular Value added program was developed in response to the needs of the student's workplace and the most recent market trends. It is considered the most updated syllabus and course material for Electric Vehicles. The value added program also helps them reach their professional objectives and get work in multinational businesses.

This program, which lasted 30 hours, was conducted in the Classroom of the mechanical engineering department of SITRC.



Photo:-Students Photo during Value added program on “Electric Vehicle Technology”





Mechanical Engineering Department, Mahiravni Nashik Maharashtra
Sandip Institute of Technology and Research Centre Nashik
Lat 19.964369°
Long 73.66813°
22/02/24 11:11 AM GMT +05:30

P.S. Shirsath
Prof. P.S Shirsath
Event Co-ordinator

S.G. Ghalme
Dr. S.G. Ghalme
Head, Mech. Engg.

M.M. Patil
Dr. M. M. Patil
Principal



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SANDIP ISTITUTE OF TECHNOLOGY & RESEARCH CENTRE

VAP on "Electrical Vehicle Technology"

Department of Mechanical Engineering

Attendance Sheet (2 Hrs each)

Sr.No	Student Name	25/01/24	27/01/24	27/01/24	01/02/24	02/02/24	02/02/24
1	AHER KUNAL SHIVAJI	KAS	KAS	KAS	KAS	KAS	KAS
2	BHARAMBE SAURABH VISHNU	SVB	SVB	SVB	SVB	SVB	SVB
3	CHAUHAN ANKIT OMPRAKASH	ANK	ANK	ANK	ANK	ANK	ANK
4	GHEL GANESH RATAN	GHE	GHE	GHE	GHE	GHE	GHE
5	JAWALE KHILESH PRADIP	JKP	JKP	JKP	JKP	JKP	JKP
6	KARAD RUSHIKESH SHRIRANG	RUS	RUS	RUS	RUS	RUS	RUS
7	KHACHANE TILAK MILIND	T.M.K	T.M.K	T.M.K	T.M.K	T.M.K	T.M.K
8	KHAN AFZAL AFGAN	KHA	KHA	KHA	KHA	KHA	KHA
9	MAGAR ANIKET VITTHAL	KAV	KAV	KAV	KAV	KAV	KAV
10	MANJULE OM SIKANDAR	OM	OM	OM	OM	OM	OM
11	MESTRY VEDANT PRAKASH	VM	VM	VM	VM	VM	VM
12	MISHRA SAHIL SHYAMNARAYAN	SM	SM		SM		SM
13	NARWADE ADITYA SANJAY	A.S.N	A.S.N	A.S.N		A.S.N	A.S.N
14	OM SUNIL KHULE	O.S.K	O.S.K			O.S.K	O.S.K
15	PATHRE PRATHAM SUNIL	P.S.P	P.S.P			P.S.P	P.S.P
16	PATIL ADITYA ANAND	PA	PA	PA		PA	PA
17	PATIL PRASAD KRISHNAKANT	P.K.P	P.K.P	P.K.P	P.K.P	P.K.P	P.K.P
18	PATIL VISHAL MADHUKAR	V.M.P	V.M.P		V.M.P		V.M.P
19	PRAJAPATI SUSHIL DINESH			S.P	S.P	S.P	S.P
20	RANE MOHIT VASUDEV	M.V.R					M.V.R
21	SANAP SHUBHAM VILAS	S	S		S	S	S
22	SARODE KAUSHIK ANANTA	SKA	SKA	SKA			
23	SAVANT VISHAL RAMESH	S		S	S	S	S
24	SHINDE YASH SANTOSH	YS	YS				

25	SUSHMA RENJA GAVIT	Sush	Sush	Sush	Sush	Sush	Sush
26	THORAT PRITI ARUN	MPran	MPran		MPran		MPran
27	FALKE MAYUR ASHOK	M.A.falke	M.A.falke			M.A.falke	M.A.falke
28	DHODI JAYDEEP JAGDISH	dja		dja	dj		dj
29	DANDEKAR RUNIT RAYMAN	DRunit			DRunit	DRunit	DRunit
30	BARI PAVAN BHAGWAN	BhBhari	BhBhari	BhBhari	BhBhari		


Co-ordinator




Head of Department

Sandip Foundation's

SANDIP ISTITUTE OF TECHNOLOGY & RESEARCH CENTRE

VAP on "Electrical Vehicle Technology"

Department of Mechanical Engineering

Attendance Sheet

Sr.No	Student Name	08/02/24	09/02/24	09/02/24	15/02/24	16/02/24	16/02/24
1	AHER KUNAL SHIVAJI	KAP			KAP		KAP
2	BHARAMBE SAURABH VISHNU	SVBH	SVBH				
3	CHAUHAN ANKIT OMPRAKASH	Aniket	Aniket			Aniket	
4	GHEL GANESH RATAN	Graging	Graging		Graging		Graging
5	JAWALE KHILESH PRADIP	JPP	JPP	JPP			
6	KARAD RUSHIKESH SHRIRANG	Rushik	Rushik		Rushik		Rushik
7	KHACHANE TILAK MILIND	T.Mkache		T.Mkache			
8	KHAN AFZAL AFGAN	KhanA	KhanA		KhanA		KhanA
9	MAGAR ANIKET VITTHAL	AM	AM		AM		AM
10	MANJULE OM SIKANDAR		omsi	omsi	omsi		omsi
11	MESTRY VEDANT PRAKASH	Vmistry		Vmistry	Vmistry	Vmistry	Vmistry
12	MISHRA SAHIL SHYAMNARAYAN	Smish	Smish	Smish	Smish		Smish
13	NARWADE ADITYA SANJAY	A.S.Narwade	A.S.Narwade		A.S.Narwade		A.S.Narwade
14	OM SUNIL KHULE	O.S.Khule	O.S.Khule		O.S.Khule		O.S.Khule
15	PATHRE PRATHAM SUNIL	PA	PA		PA		PA
16	PATIL ADITYA ANAND	P.A.Patil	P.A.Patil		P.A.Patil		P.A.Patil
17	PATIL PRASAD KRISHNAKANT	P.K.Patil	P.K.Patil				P.K.Patil
18	PATIL VISHAL MADHUKAR	V.M.Patil	V.M.Patil	V.M.Patil		V.M.Patil	
19	PRAJAPATI SUSHIL DINESH	S.Prajapati	S.Prajapati		S.Prajapati		S.Prajapati
20	RANE MOHIT VASUDEV	M.V.Rane	M.V.Rane		M.V.Rane	M.V.Rane	M.V.Rane
21	SANAP SHUBHAM VILAS	Silvas		Silvas		Silvas	Silvas
22	SARODE KAUSHIK ANANTA	SKA	SKA	SKA	SKA	S.KA	SKA
23	SAVANT VISHAL RAMESH	S	S		S	S	S
24	SHINDE YASH SANTOSH	Yashinde		Yashinde	Yashinde	Yashinde	

25	SUSHMA RENJA GAVIT		Sar	Sar	Sar	Sar	Sar
26	THORAT PRITI ARUN	MPr		MPr		MPr	MPr
27	FALKE MAYUR ASHOK	M.A.Fal		M.A.Fal		M.A.Fal	M.A.Fal
28	DHODI JAYDEEP JAGDISH	djay		djay		djay	djay.
29	DANDEKAR RUNIT RAYMAN	DRunit		DRunit		DRunit	DRunit
30	BARI PAVAN BHAGWAN	PRBh	PRBh			PRBh	PRBh


Co-ordinator




Head of Department

Sandip Foundation's

SANDIP ISTITUTE OF TECHNOLOGY & RESEARCH CENTRE

VAP on "Electrical Vehicle Technology"

Department of Mechanical Engineering

Attendance Sheet

Sr.No	Student Name	22/02/24	23/02/24	23/02/24			
1	AHER KUNAL SHIVAJI	Kaha		Kaha			
2	BHARAMBE SAURABH VISHNU	Subhame	Subhame	Subhame			
3	CHAUHAN ANKIT OMPRAKASH	Aniket	Aniket				
4	GHEL GANESH RATAN	Gghel		Gghel			
5	JAWALE KHILESH PRADIP	JJP	JJP	JJP			
6	KARAD RUSHIKESH SHRIRANG	Rushik	Rushik				
7	KHACHANE TILAK MILIND		T.M.Kha	T.M.Kha			
8	KHAN AFZAL AFGAN	KhanA.	KhanA	KhanA			
9	MAGAR ANIKET VITTHAL	KAV	KAV KAV	KAV			
10	MANJULE OM SIKANDAR	Omnik	Omnik	Omnik			
11	MESTRY VEDANT PRAKASH	VPratik	VPratik	VPratik			
12	MISHRA SAHIL SHYAMNARAYAN	Sush	Sush	Sush			
13	NARWADE ADITYA SANJAY	AsNande	AsNande				
14	OM SUNIL KHULE	Oskule	Oskule				
15	PATHRE PRATHAM SUNIL	PpPrath	PpPrath				
16	PATIL ADITYA ANAND	PatA	PatA	PatA			
17	PATIL PRASAD KRISHNAKANT	P.K.Pati	P.K.Pati	P.K.Pati			
18	PATIL VISHAL MADHUKAR	V.M.Pati		V.M.Pati			
19	PRAJAPATI SUSHIL DINESH	SPrapati		SPrapati			
20	RANE MOHIT VASUDEV	MPrane		MPrane			
21	SANAP SHUBHAM VILAS	SvSanp	SvSanp	SvSanp			
22	SARODE KAUSHIK ANANTA	SKA	SKA	SKA			
23	SAVANT VISHAL RAMESH	Sa	Sa	Sa			
24	SHINDE YASH SANTOSH	Yshinde	Yshinde	Yshinde			

25	SUSHMA RENJA GAVIT	<i>Sushma</i>	<i>Sushma</i>				
26	THORAT PRITI ARUN	<i>P.P.Arun</i>		<i>P.P.Arun</i>			
27	FALKE MAYUR ASHOK	<i>M.A.Falke</i>	<i>M.A.Falke</i>	<i>M.A.Falke</i>			
28	DHODI JAYDEEP JAGDISH	<i>dja</i>					
29	DANDEKAR RUNIT RAYMAN	<i>D.Runit</i>	<i>D.Runit</i>	<i>D.Runit</i>			
30	BARI PAVAN BHAGWAN	<i>P.Bhagwan</i>		<i>P.Bhagwan</i>			

[Signature]
Co-ordinator

[Signature]
Head of Department





SANDIP INSTITUTE OF TECHNOLOGY RESEARCH CENTRE, NASHIK



DEPARTMENT OF MECHANICAL ENGINEERING



THIS IS TO CERTIFY THAT

AHER KUNAL SHIVAJI

OF

TE (Mechanical) has participated and successfully completed Value Added Program on “Electric Vehicle Technology” organized by Mechanical Engineering Department, SITRC, Nashik. The duration of program was from 25th Jan. 2024 to 23rd Feb. 2024.

HoD,
SITRC
Mechanical Engg.

Principal,

Sandip Foundation's
SANDIP INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE, NASHIK
An Autonomous Institute
DEPARTMENT OF MECHANICAL ENGINEERING

Feedback form for value added program

Name of Department	Department of Mechanical Engineering
Name of Value Added Program	Electrical Vehicle Technology
Date and Duration	25 th Jan – 23 rd Feb. 2024, 30 hrs

Sr. No.	Parameter	Rating (please tick at your choices)				
		1 (worst)	2	3	4	5 (Best)
1	Punctuality					✓
2	Expertise					✓✓
3	Clarity of communication					✓✓
4	Problem solving ability					✓✓✓
5	Coordination					✓✓✓
6	Understanding by the students					✓✓✓
7	Quality of content					✓✓✓
8	Value addition from course					✓✓✓

Ahmed Kunal Shivaji

K. Ahmed

Name and Signature

