



Shri Sant Gajanan Maharaj College of Engineering, Shegaon
Department of Electrical Engineering

Report of activities conducted under Electric Vehicle Lab

The Electrical Engineering Department has established centre of excellence in e-mobility in collaboration with Imperial Society of Innovative Engineers, Noida in the month of January 2022. Under Centre of Excellence training activities, programs for Degree, Diploma and ITI students are conducted by the trainers of SSGMCE and ISIE.

This laboratory consists of following facilities.

1. EV Drive train experimental setup.
2. EV Machines with various cut section of controller.
3. Conversion kits for two & three Wheeler.
4. Hybrid drive train Experimental setup.
5. Electric vehicle tool kit.
6. Solar power Charging station.
7. Vehicle to grid infrastructure.
8. On grid charging station.

Department Electrical Engineering had organized following training Programs

Name of Event	Duration	Target Group	No of Beneficiary
Two- wheeler Electric Vehicle Assembly	2 nd Aug to 31 st Aug 2023	Students of Government ITI Khamgaon, Dist.- Buldhana (M.S.)	60
Two- wheeler Electric Vehicle Assembly	3 rd July to 28 th July 2023	Students of Government ITI Khamgaon, Dist.- Buldhana (M.S.)	60
Two- wheeler Electric Vehicle Assembly	5 th June to 30 th June 2023	Students of Government ITI Shegaon, Dist.- Buldhana (M.S.)	35
Certified Diploma in EV Power Train Architecture and Energy storage System	10 th Sept to 10 th Dec 2022	Final Year Students of Electrical, Mechanical and Electronics Engineering of SSGMCE	30

Training Objectives:

1. To learn students about Electric Vehicle assembly.
2. To learn students about EV Power Train Architecture and Energy storage System

Importance of Electric Vehicle Training

1. Significant advantage of EV is their impact on our environment, zero tailpipe emissions which reduces air pollution.
2. With rapid switch of automobile industries from ICE vehicles to Electric vehicles, there is huge requirement of skilled manpower who are having sound knowledge of electric vehicles & their components.
3. Training provides advanced knowledge & hands on practices.
4. To aware the youth about the importance of electric vehicles in terms of employment, boost up the livelihood position.
5. Enhancing individuals' employability & ability to adapt to changing technology like electric vehicle & labour market demands.
6. Strengthening competitiveness of the country by skilled manpower.
7. Creating equal opportunities for girls & boys by skilling them on electric vehicles.
8. Industries have been struggling to match the rising demand of skilled labour in the electric vehicle industry due to lack of training.
9. Training will help employability improvement, knowledge development of electric vehicle enthusiast.
10. Bridge the industry academia gap

Name of Trainer: Mr. Jayesh Kumar & Mr. Yash Prajapati

Venue: Centre of Excellence for Electric Vehicle Research and Skill Development Lab,
Shri Sant Gajanan Maharaj College of Engineering, Shegaon, Dist-Buldhana (M.S.)



Two- wheeler Electric Vehicle Assembly during 2nd Aug to 31stAug 2023



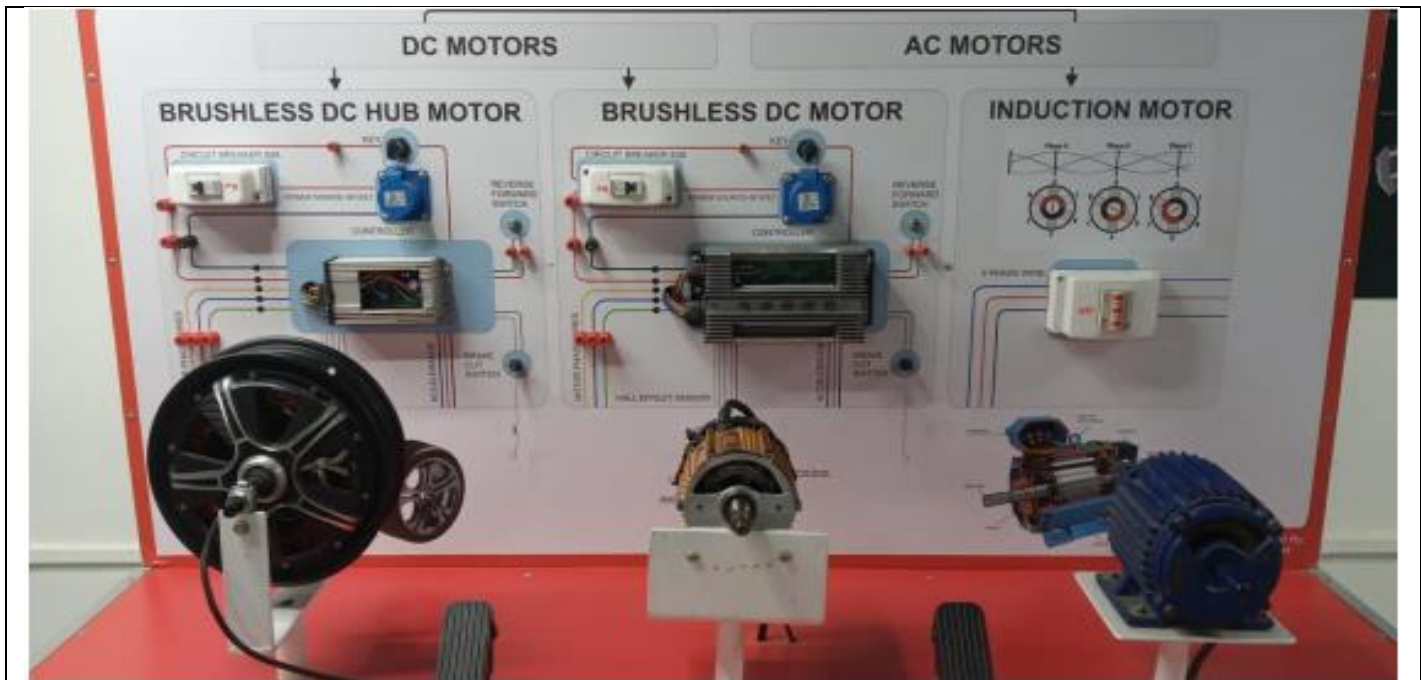
Two- wheeler Electric Vehicle Assembly during 3rd July to 28thJuly 2023



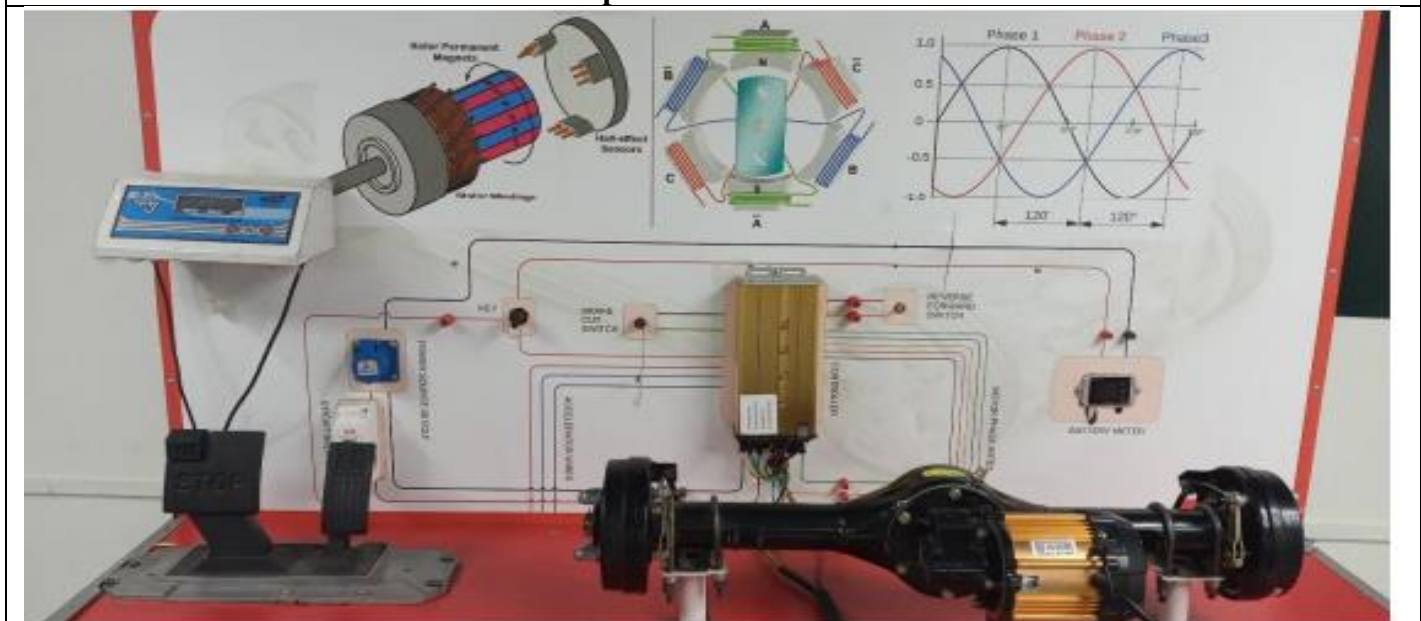
Two- wheeler Electric Vehicle Assembly during 5th June to 30th June 2023



Demonstration panel installed in E-vehicle CoE



Demonstration panel installed in E-vehicle CoE



Demonstration panel installed in E-vehicle CoE

Dr. S.S. Jadhao
Coordinator (Centre of Excellence)

Dr. S.R. Paraskar
Head, EED