



Vishnu Waman Thakur Charitable Trust's  
**VIVA Institute of Technology**

Approved by AICTE, New Delhi, DTE, Government of Maharashtra  
And Affiliated to University of Mumbai



## Department of Electrical Engineering

### Report on Electric Vehicle Charging Infrastructure

**Bridge Course Title:** Electric Vehicle Charging Infrastructure

**Instructor:** Prof. Anojkumar Yadav

**Conducted for:** Third-Year Engineering Students

**Semester:** V (2024-25)

**Total Students:** 30

**Total Lectures:** 30

#### Summary:

The course introduced students to the importance of electric vehicle (EV) charging infrastructure. Covering six key modules, it explored the types of EVs, charging technologies, technical aspects, installation and maintenance practices, business models, and future trends. Theoretical knowledge was supplemented with practical examples and case studies to provide a holistic understanding.

#### Objectives:

- Understand the fundamental concepts and importance of electric vehicle (EV) charging infrastructure.
- Develop the skills to design, install, and maintain EV charging stations.

#### Outcomes:

Upon completing the course, students were able to:

- Comprehend the various types of electric vehicles and their respective charging needs.
- Evaluate the components and types of EV charging stations.
- Assess the technical aspects and protocols of EV charging systems.
- Plan installation and maintenance of EV charging stations.
- Analyze various business models and financial considerations for EV charging infrastructure.
- Explore future trends and innovations in EV charging technology.

Prof. Anojkumar Yadav

Subject Incharge