

# Petrol Engine to E-Bike Conversion: Advancement in Two-Wheeler Moped

Anil Yadav, Atharv Thorat, Shyam Sundar Singh,  
Jagdish Dandekar, Vedant Kadam, Prof. B. A. Burkule

Department of Mechanical Engineering  
Guru Gobind Singh Polytechnic, Nashik

**Abstract:** *This paper explores the concept of converting a petrol engine bike into an electric bike (e-bike). The rise of e-bikes is driven by the need for cleaner, more sustainable transportation options. Converting a petrol engine bike into an e-bike is a feasible solution that not only reduces environmental impact but also offers operational cost savings and convenience. This paper delves into the components involved in the conversion process, examines the advantages and challenges, and considers the broader implications for transportation and sustainability. Through this analysis, we aim to provide a deeper understanding of how e-bikes work, their environmental benefits, and the future of electric mobility*

**Keywords:** electric mobility