

# Kajian kesesuaian standar kelistrikan sistem traksi kendaraan listrik konversi Universitas Indonesia = Study of electrical standards compatibility for Universitas Indonesia converted electric vehicle traction system

Vincentius Himawan, author

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## Abstrak

Studi ini mengkaji kesesuaian kendaraan listrik konversi Universitas Indonesia (UI) terhadap standar internasional. Kendaraan listrik memiliki potensi bahaya utama di bagian kelistrikan dan kontrolnya, sehingga pengkajian berfokus pada proteksi instalasi kelistrikan, keamanan operasional kendaraan, dan proteksi sistem pengisi daya. Pengkajian dilakukan dengan studi literatur dan pengamatan langsung pada mobil kijang konversi UI. Hasilnya, didapat beberapa parameter standar masih belum dipenuhi oleh mobil toyota kijang konversi UI. Ke depannya, perlu dilakukan perbaikan agar memenuhi standar tersebut.

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This study examines the compatibility of Universitas Indonesia (UI) converted electric vehicle based on international standards. Electric vehicles have a major hazard in the electrical controls and system, therefore the focus on this study are electrical installation protection, vehicle operational safety, and charging system protection, examinations are done by literature study and direct observation of UI kijang converted car. Through the study, it becomes aware that the car doesn't meet some provisions in the standards. In the future, the car needs to be improved in order to meet those standards.