

## ABSTRACT

The diploma project comprises: 80 pages, 40 figures, 16 tables, 1 list of elements and the graphical part on 3 pages A1.

The objectives of this project are the development and practical implementation of electromechanical system of an electromotocycle based modern converting technology and induction motor with squirrel cage rotor, and determination of system parameters for the mathematical model of a control object.

The results obtained can be used for designing and constructing electromechanical systems of two-wheel electrovehicles namely electroscooters, electrobicycles and electrorollers.

The graphical part includes: functional and block diagrams of the electromechanical system of frequency control of the object torque , the schematic circuit diagram of power unit part, graphics of transients obtained by mathematical simulation and experimental testing.

**ELECTRODRIVE, ELECTROMOTORCYCLE, FREQUENCY CONVERTER, INDUCTION MOTOR, DRIVER, DIGITAL CONTROLLER, STORAGE BATTERY.**

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Devel.	R. Kiiatkin					7	80	
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