

## ABSTRACT

The diploma project comprises: 103 pages, 37 figures, 26 tables, list of elements, simulational model and the graphical part on 6 pages A1.

The objectives of this project are the development and practical implementation of electromechanical system of an electromotocycle based on modern converting technology and brushless dc motor, as well as mathematical modeling of electromechanical system and electrodrive layout design.

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 control of the object torque , the schematic and pcb diagrams of power, clamper and driver unit parts, graphics of transients obtained by mathematical simulation and experimental testing.

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

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	Letter	№ of doc.	Sign.	Date	<i>Electromechanical system of electromotorcycle</i>	L.	Page	Pages
Devel.	R. Kiiatkin						7	103
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Approved.	S. Peresada				<i>Abstract</i>			