

## ABSTRACT

The diploma project comprises: 72 pages, 39 figures, 5 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 electrobike based modern converting technology and brushless direct current motor, 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: a schematic diagram of an electric bicycle, a circuit diagram of the electric principle of the power part of the EMS of the electric bike, graphs of transients obtained by mathematical modeling.

**ELECTRODRIVE, ELECTROBICYCLE, BRUSHLESS DIRECT CURRENT MOTOR, MICROCONTROLLER, STORAGE BATTERY, PLECS.**

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Devel.	O.Krupenko							
Checked	D. Prystupa						7	
N. Contr.						<i>NTUU «KPI», FEA Department AEMS-ED gr. EP-42</i>		
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