

I. IDENTIFICATION DATA

Thesis name:	Implementation of Field Oriented Control in Simulink
Author's name:	Alvarez Alberto
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Electric Drives and Traction
Thesis supervisor:	Ing. Jan Bauer Ph.D.
Supervisor's department:	Department of Electric Drives and Traction

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
The difficulty of the assignment correspond to the diploma thesis.	

Satisfaction of assignment	fulfilled
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
All points of the assignment were fulfilled.	

Activity and independence when creating final thesis	B - very good.
<i>Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.</i>	
Student try to solve the topic independently, he need several consultations, but he was well prepared and need usually only small hint.	

Technical level	A - excellent.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
Both theoretical and practical(simulation) part of the thesis is on high level.	

Formal and language level, scope of thesis	A - excellent.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Thesis is well organized and redable. At the beginning are explained necessary theoretical information, based on them is created model in second part of the thesis.	

Selection of sources, citation correctness	A - excellent.
<i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i>	
References for the work were correctly selected.	

Additional commentary and evaluation
<i>Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.</i>
Please insert your commentary (voluntary evaluation).

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.

The aim of this thesis was to simulate FOC algorithm of IM drive in Simulink environment. Solving of the thesis were influenced by lock down of the faculty due to the COVID-19, But student work alone and independently. He also extended model with simulation of MRAS for IM speed estimation.

I evaluate handed thesis with classification grade **A - excellent**.

Date: **25.8.2020**

Signature: